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MOTOR TRANSPORT TRAFFIC STATISTICS PROVINCE OF ALBERTA

1956

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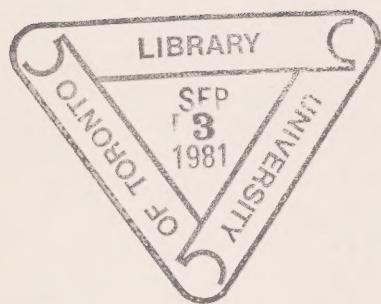


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INTRODUCTION

This report presents the results of quarterly surveys of Motor Transport Traffic conducted in the Province of Alberta during the twelve month period January 1, 1956 to December 31, 1956. These surveys have been made possible through the excellent co-operation received from the industry and particularly from the officials of the Government of Alberta, in allowing the Bureau access to the motor vehicle

registration records from which quarterly samples of trucks and buses were selected.

Three similar reports have been published previously, the first for the Province of Manitoba covering the twelve month period July 1, 1954 to June 30, 1955; the second and third for Ontario and British Columbia covering the period July 1, 1955 to June 30, 1956.

General Description of Sample

As in other provinces, an overall sample of approximately 10 per cent of the trucks and intercity buses registered in Alberta was selected for inclusion in the surveys conducted during the twelve month period ending December 31, 1956. To take into consideration seasonal variations in road transport operations, four surveys each of which consisted of a quarter of the annual sample or about 2½ per cent of commercial motor vehicle registrations were conducted every three months. Each survey ran for a seven day period, Sunday through Saturday. In view of the fact that the number of motor vehicle registrations varies from day to day, each quarterly sample, of about 3,000 vehicles was selected immediately prior to the survey week in order to be representative of the registrations in force at the time. Registrations selected were coded so that a particular vehicle would not be chosen more than once during each licence year.

All trucks and buses registered in the province are represented except those vehicles which are not considered to be engaged in transportation services and buses which are utilized for scheduled urban transit services. The sample thus excludes such vehicles as tow trucks, hearses, ambulances, snowmobiles, farm tractors, cranes, bulldozers, cat tracks, diggers, graders and other road building equipment, military and other government owned vehicles, taxis and passenger automobiles and those vehicles which are not required to obtain an Alberta licence under Section 13 of the Alberta Vehicles and Highway Traffic Act. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

The annual sample of ten per cent of all trucks registered in the province was considered sufficient to obtain reliable statistics but it was also considered advisable to stratify the sample by gross vehicle weight groups. For example, almost 54,000 vehicles or approximately 49 per cent of the provincial total have a gross vehicle weight of 5,000 pounds or less, whereas only about 2,000 trucks are in the over 30,000 pound group. Not only were more reliable results obtained by concentrating higher sampling ratios among the weight groups containing the largest vehicles and the most diversified type of operations, but it was also necessary to ensure that each

weight group contained a sufficient number of vehicles to obtain reliable data for expansion purposes. The proportion selected by weight group varied, therefore, from 6 per cent in the lowest weight group to about 31 per cent in the heaviest with the result that an overall ten per cent ratio was made to represent approximately 20 per cent of the capacity of all vehicles registered.

The quarterly samples were also stratified by function or type of operation into the four categories: for hire, private-intercity, private urban and private farm. For hire trucks are those operated for compensation or gain anywhere in the province according to licence; private-intercity are those which are owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise; private urban vehicles are those which are operated predominantly within urban or metropolitan areas, and private farm trucks are those operated by farmers primarily to transport farm produce, farm supplies and other service purposes. This stratification was made on the basis of the licensing system in Alberta maintaining comparability with other provinces wherever possible.

It is important to note that the Alberta licensing system varies from that of other provinces to an extent that an exact provincial comparability is not possible. In Alberta, trucks operated for compensation or for hire are classed as "Public Service Vehicles" and are registered according to type of operation. Public Service Vehicles operated within a city, town or village and within an area of a radius of five miles from the incorporated boundaries of such point of registration are issued with a "C" licence plate. Public Service Vehicles used for the purpose of transporting for compensation, grain, fodder, vegetables, lumber or any other designated commodity are issued with an "E" licence plate and all other Public Service vehicles are issued a "P.S.V." plate.

Private trucks (those not operated for compensation) are classed as "Commercial Vehicles" and also issued with licence plates according to type of operation. Commercial vehicles as well as Public Service vehicles operated within a city, town, or village and within a radius of five miles are provided

ed with a "C" licence plate. Commercial vehicles kept by a person, firm or corporation for the purpose of being rented without a driver are issued with "DU" plates; vehicles used for personal transportation including goods which are the property of the owner, by tradesmen for conveyance of their own equipment or by salesmen for the conveyance of their display goods are issued with an "X" licence plate. Commercial vehicles owned and operated by farmers and used solely in connection with their own farm operations are provided with an "F" licence. All other commercial vehicles are issued with a "CV" licence.

From the above, it can be seen that the "E" and "PSV" types of licence plates correspond to the for hire or common carrier group as defined for the purpose of this report and the operations of such vehicles comprise the for hire items throughout this publication. For complete coverage of the for hire category, the public service vehicles operating under the "C" licence plate should also be included with the for hire items in this report but as some commercial or private vehicles also operate under a "C" licence, it was not possible to make the necessary distinction. It was therefore decided to include all urban vehicles operating under the "C" type of licence in the private urban category. As a result the data shown throughout this report as "For Hire" is understated and that for "Private

Urban" is overstated by the operations of urban public service vehicles classified as private urban.

Commercial vehicles operating under the "CV", "DU" and "X" types of licences, which are not restricted as to area of operation, were classed as "Private Intercity" in this report. It is known, through experience that a large number of these vehicles, particularly in the under 5000 lb. gross weight group, are engaged primarily in urban operations and should therefore be included in the Private Urban category. But as with the "C" licence, a breakdown of these vehicles into intercity and urban is not possible under the existing licensing system. For this reason, the data presented herein for the two categories "Private Intercity" and "Private Urban", particularly in the 0-5000 lb. column, should not be considered to be very reliable and should not be compared with similar data produced for other provinces unless some allowance is made for the above inconsistencies. A fairly reliable comparison could be made, however, by combining these two categories into one. Data which are particularly affected by these licence limitations are signified in the tables by an asterisk.

Commercial vehicles operating under an "F" licence plate which corresponds to the farm vehicle concept as defined above, have been included in the "Private Farm" category.

Expansion of the Survey Results

Since each quarterly sample was selected at random, the final distribution of each sample by gross vehicle weight and by function was used to provide population estimates as at the time of the sample selection. The results of each quarterly survey were then expanded to represent all trucks and intercity buses registered in the province, as well as the operations performed during the three month period. Generally speaking, this was achieved by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. Expansion on the basis of the relative size of the sample and population varied with each gross vehicle weight group and

with the breakdown of the gross sample into various categories of response. Since there are 13 weeks in a three month period, time expansion was achieved by multiplying by 13 in all cases.

The resultant expanded data for each of the four quarterly surveys were then combined to obtain provincial estimates for the twelve month period. Yearly operating averages such as average yearly mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

Review of Survey Results

The statistical data obtained from these surveys have been divided into five parts or sections according to type of traffic. Section I contains estimates of the traffic performed by all Alberta registered trucks both inside and outside the province. Section II presents estimates of traffic performed by all Alberta registered trucks within the boundaries of the province only. Section III provides data relating to the operations of Alberta registered trucks engaged in interprovincial and international traffic. Sections IV and V contain estimates of the

traffic performed by Alberta registered intercity buses on the same basis as that shown in Sections I and II.

In the Appendix, the average number of trucks registered in Alberta during the twelve month period ending December 31, 1956 is shown by type of operation, and by gross vehicle weight. The number of trucks registered averaged 110,143 of which 9,285 or 8 per cent were common or for hire carriers and 100,858 or 92 per cent were private. Fifty-eight per

cent or 64,159 of the vehicles were classed as farm trucks, that is, trucks which were used mainly in the growing, servicing and marketing activities of the farmers; 8,793 or 8 per cent were private trucks restricted to urban areas; and, 27,906 or 26 per cent were private intercity vehicles owned and operated by business, industry and individuals to transport and distribute their own goods and merchandise.

In the tables presented herein, blanks appear in a number of places. This is due to the fact that no vehicles for these particular weight classifications were selected in any of the four samples which were drawn. It does not necessarily follow that there are no vehicles in the province belonging to these weight classifications.

Section I: The total number of miles travelled by all trucks registered in Alberta, intraprovincially, interprovincially, internationally and extraprovincially (traffic performed entirely outside the province) during the year ending December 31, 1956 amounted to 720 million, of which 178 million miles or 25 per cent were accumulated by for hire trucks and 233 million or 32 per cent by private intercity trucks. On the average trucks registered in the province travelled 6,500 miles during the year, and on the average each ton of goods was carried 28.6 miles. For hire trucks travelled an average of 19,100 miles during the period as compared with an average of 8,400 miles for private intercity vehicles and carried goods 64 per cent of the time as against 37 per cent for private intercity trucks. The distance each ton of goods was carried by for hire trucks averaged 50 miles and by private intercity trucks 28 miles.

The amount of fuel consumed by Alberta registered trucks totalled 69.2 million imperial gallons of gasoline, 3.0 million gallons of diesel oil and 2.3 million gallons of other fuel. As there were relatively few trucks included in the survey which were not gasoline trucks, the estimates of the amount of diesel oil and other fuel consumed are likely not very reliable and should therefore be used with caution. Miles per gallon of gasoline varied from 6.2 for the common carriers to 12.5 for farm vehicles. The average for all gasoline trucks amounted to 10.0 miles per gallon, for all diesel trucks, 6.1 miles per gallon and for trucks consuming other fuel, 5.7 miles per gallon.

The total volume of goods transported by all trucks registered in the province amounted to 46.0 million short tons. Farm trucks carried 7.2 million tons or 16 per cent of the total, private-urban trucks transported 14.7 million tons or 32 per cent; private intercity trucks 4.8 million tons or 10 per cent and for hire carriers transported 19.2 million tons or 42 per cent of the total volume. Ton miles performed aggregated 1,315 million, an average of 11,900 ton miles per vehicle.

Total capacity ton miles, which was based on the actual mileage travelled during the year, amounted to 3,165 million, an average of 28,700 capacity

ton miles per vehicle. The percentage of capacity utilized was 41.5 for all trucks and 49.5 per cent for the for hire group. Gross ton miles aggregated 3,613 million, an average of 32,800 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to 67 million dollars or \$7,200 per vehicle. Revenue per ton mile was 7.0 cents whereas revenue per total mile amounted to 37.7 cents.

Section II: This series presents the total amount of traffic performed by Alberta registered trucks within the boundaries of the province. In addition to the intraprovincial traffic, it includes that portion of interprovincial and international traffic which was performed on Alberta streets and highways.

The total number of miles travelled by Alberta registered trucks within the province amounted to 694 million as compared with the grand total of 720 million miles travelled both inside and outside the province. The yearly mileage per truck averaged 6,300 miles as against 6,500.

The total volume of goods carried in Alberta amounted to 45.9 million tons. Ton miles totalled 1,093 million as compared with 1,315 million inside and outside the province, and average ton miles per vehicle dropped to 9,900 from 11,900. Similarly, the average weight carried per vehicle amounted to 3.3 tons as compared with 3.7 tons and the average distance each ton of goods was carried within the province was 23.8 miles as against 28.6 miles.

Total revenue received by common carriers for the transportation of goods on Alberta streets and highways amounted to 56 million dollars, an average of \$6,000 per vehicle and 7.5 cents per ton mile.

Section III: This section presents some statistics on interprovincial and international traffic. Table 13 shows the total amount of goods transported out of Alberta to other provinces and the United States as well as the volume of goods transported into Alberta from other provinces and the United States.

Table 14 shows interprovincial and international traffic by gross vehicle weight groups and by class of carrier. Of total traffic amounting to 313 million ton miles, almost 98 per cent or 308 million ton miles were performed by for hire carriers and almost 33 per cent of the total traffic was performed by trucks with a gross vehicle weight between 20,001 and 25,000 pounds.

Commodities carried by vehicles engaged in interprovincial and international traffic are shown in table 15. The total weight of goods transported was 496,000 tons of which 479,000 tons or 97 per cent was carried by for hire trucks. Revenues received by common carriers amounted to 15.4 million dollars, an average of 5.01 cents per ton mile, and

each ton of goods was transported an average distance of 643 miles. Manufactures and miscellaneous items, totalling 323,000 tons, were the chief commodities transported by for hire carriers for which revenue of \$10.8 million was received.

Private vehicles engaged in interprovincial and international service transported 17,000 tons of goods; all of which were manufactures and miscellaneous items.

Section IV: The total number of passengers carried by intercity buses licenced in Alberta during the twelve month period January 1, 1956 to December 31, 1956, is estimated at 3.7 million. In transporting this number of passengers, buses travelled 15.8 million miles, an average of 57,500 miles per bus. The average distance each passenger was carried was 76.7 miles. The total number of passenger miles performed was 286 million and, for each mile travelled, buses carried an average of 18 passengers. Capacity seat miles performed amounted to 556 million indicating that the average capacity utilized was 51.3 per cent.

In travelling this number of miles, buses used 1.6 million gallons of gasoline and 728,000 gallons of diesel oil. Gasoline engined buses averaged 6.0 miles per gallon and those using diesel oil, 8.6 miles per gallon.

Total revenues received for the transportation of passengers amounted to 6.3 million dollars, an average of \$23,000 per bus, 40.1 cents per total mile or 2.2 cents per passenger mile.

Section V: Within Alberta, buses travelled a distance of 8.6 million miles using approximately one million gallons of gasoline and 283,000 gallons of diesel oil. Estimated passenger miles performed totalled 146 million and per cent capacity utilized was 50.3 per cent. Revenues collected amounted to 3.1 million dollars, an average of \$11,300 per bus at the rate of 2.1 cents per passenger mile.

Appendix: The appendix to this report provides an analysis of and the degree of response obtained by the use of the random sample method of collecting Motor Transport Traffic Statistics. For the four quarterly sample surveys conducted in the province over the twelve month period ending December 31, 1956, questionnaires were sent to the owners or operators of 12,296 trucks. Of this total, 3,985 were returned with the questions unanswered due to the fact that the vehicles concerned were not operated during the specified week for a number of reasons such as "being repaired" and "operator ill". These questionnaires are, however, considered to be equivalent to being completed returns, as allowance for the average number of vehicles not in operation during the year must be made when expanding the survey results to obtain estimates of the total amount of traffic performed by all registered vehicles in the province. In view of this, the total number of satisfactory or completed questionnaires returned totalled 9,063 or 73.7 per cent of the total sent. In addition, 1,684 questionnaires were returned but they were incompletely filled out and therefore unusable. Non response to the survey totalled 1,549 or 12.6 per cent.

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
January 1, 1956 — December 31, 1956

TABLE 1. Total Miles Travelled

Type of operation ¹	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
'000							
For Hire	—	3,991	1,316	27,329	84,810	60,235	177,681
Private:							
Intercity and Urban	159,372	29,753	6,417	17,520	12,814	7,226	233,102
Urban	24,554	11,989	3,016	16,448	7,305	2,921	66,233
Farm	133,094	64,056	8,540	33,932	3,821	12	243,455
Total	317,020	109,789	19,289	95,229	108,750	70,394	720,471
Average yearly mileage per truck							
For Hire	—	9,100	7,300	11,300	18,600	38,400	19,100
Private:							
Intercity and Urban	7,900*	7,700	9,600	9,100	16,400	20,400	8,400*
Urban	7,800	7,300	7,100	7,000	7,100	12,800	7,500
Farm	4,400	3,600	2,900	2,900	3,700	800	3,800
Total	5,900	4,600	4,600	5,200	14,700	32,500	6,500
Average journey (Average distance each ton of goods was carried)							
For Hire	—	30.3	29.0	29.3	32.0	130.7	49.9
Private:							
Intercity and Urban	16.1*	20.2	28.4	30.4	25.2	38.4	27.8*
Urban	14.1	11.6	8.4	6.4	4.8	5.5	5.9
Farm	14.9	14.4	15.4	22.7	23.9	15.0	18.7
Total	15.2	15.1	16.4	17.7	24.0	66.9	28.6
Percentage of total mileage travelled empty							
For Hire	—	48.7	24.3	40.1	41.3	26.1	36.0
Private:							
Intercity and Urban	69.8*	58.2	45.9	35.1	42.5	39.2	62.6*
Urban	36.3	22.2	24.7	35.4	45.9	50.3	34.7
Farm	61.6	53.7	46.0	42.8	44.3	52.6	56.1
Total	63.8	51.3	41.2	39.3	41.9	28.4	51.3

1. For hire trucks — operated for compensation or gain anywhere in the province according to license. Private — Intercity trucks — owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise. Private-Urban trucks — operated primarily within urban areas. Private — Farm trucks — owned and operated by farmers primarily to transport farm produce, farm supplies and for service purposes.

* See text, page 6 paragraph 3.

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
January 1, 1956 — December 31, 1956

TABLE 2. Total Fuel Consumption

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
'000							
For Hire	—	297	121	3,124	11,784	9,029	24,355
Private:							
Intercity and Urban	10,470	2,401	544	1,999	1,668	1,321	18,403
Urban	1,783	1,053	303	2,063	1,202	587	6,991
Farm	8,569	5,072	790	4,443	551	3	19,428
Total	20,822	8,823	1,758	11,629	15,205	10,940	69,177
Total gallons of diesel oil consumed							
'000							
For Hire	—	—	—	—	1,180	1,801	2,981
Private:							
Intercity and Urban	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—
Farm	—	—	—	—	1,180	1,801	2,981
Total	—	—	—	—	1,180	1,801	2,981

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
January 1, 1956 - December 31, 1956

TABLE 2. Total Fuel Consumption - Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of other fuel consumed							
'000							
For Hire	—	67	—	208	649	523	1,447
Private:							
Intercity and Urban	32	6	46	139	304	152	679
Urban	—	—	13	12	69	42	136
Farm	—	—	—	—	—	—	—
Total	32	73	59	359	1,022	717	2,262
Miles per gallon of gasoline							
For Hire	—	11.2	10.9	8.2	6.3	5.2	6.2
Private:							
Intercity and Urban	15.2	12.4	11.0	8.3	6.7	5.1	12.4
Urban	13.8	11.4	9.6	7.9	5.8	4.7	9.4
Farm	15.5	12.6	10.8	7.6	6.9	4.0	12.5
Total	15.2	12.4	10.7	7.9	6.4	5.2	10.0
Miles per gallon of diesel oil							
For Hire	—	—	—	—	6.2	6.0	6.1
Private:							
Intercity and Urban	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—
Farm	—	—	—	—	—	—	—
Total	—	—	—	—	6.2	6.0	6.1
Miles per gallon of other fuel							
For Hire	—	10.0	—	8.4	5.0	4.6	5.6
Private:							
Intercity and Urban	13.3	10.1	9.0	7.0	5.4	3.1	5.8
Urban	—	—	8.6	8.0	5.2	4.0	5.4
Farm	—	—	—	—	—	—	—
Total	13.3	10.0	8.9	7.9	5.1	4.2	5.7

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
January 1, 1956 - December 31, 1956

TABLE 3. Total Goods Carried and Ton Miles Performed

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For Hire	—	54	83	2,552	12,990	3,551	19,230
Private:							
Intercity and Urban	657	356	114	1,034	1,547	1,111	4,819
Urban	263	454	222	5,124	5,497	3,179	14,739
Farm	1,324	1,727	662	2,992	473	1	7,179
Total	2,244	2,591	1,081	11,702	20,507	7,842	45,967
Average weight carried (Average weight of goods carried per one-way trip) ¹							
For Hire	—	.8	2.4	4.6	8.4	10.4	8.4
Private:							
Intercity and Urban .....	.2*	.6	.9	2.8	5.3	9.7	1.5*
Urban .....	.2	.6	.8	3.1	6.7	12.0	2.0
Farm .....	.4	.8	2.2	3.5	5.3	2.7	1.3
Total .....	.3	.7	1.6	3.6	7.8	10.4	3.7

1. Excludes vehicles making trips empty.

* See text, page 6 paragraph 3.

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
January 1, 1956 — December 31, 1956

TABLE 3. Total Goods Carried and Ton Miles Performed — Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total ton miles performed							
For Hire	—	1,651	2,405	74,665	416,138	464,317	959,176
Private:				'000			
Intercity and Urban	10,583	7,185	3,247	31,382	38,922	42,701	134,020
Urban	3,719	5,262	1,863	32,588	26,445	17,343	87,220
Farm	19,734	24,897	10,220	67,969	11,299	15	134,134
Total	34,036	38,995	17,735	206,604	492,804	524,376	1,314,550
Average ton miles per truck							
For Hire	—	3,800	13,400	30,900	91,400	295,900	103,300
Private:							
Intercity and Urban	500*	1,900	4,900	16,400	49,700	120,600	4,800*
Urban	1,200	3,200	4,400	13,900	25,900	76,100	9,900
Farm	700	1,400	3,500	5,800	11,000	1,000	2,100
Total	600	1,600	4,200	11,200	66,800	242,108	11,900

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
January 1, 1956 — December 31, 1956

TABLE 4. Total Truck Capacity¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles							
For Hire	—	5,543	5,255	180,673	833,228	912,922	1,937,621
Private:							
Intercity and Urban	123,240	39,163	20,629	89,877	97,161	110,388	480,458
Urban	20,136	18,940	11,818	99,217	61,281	43,158	254,550
Farm	122,577	108,218	34,358	196,973	30,081	148	492,355
Total	265,953	171,864	72,060	566,740	1,021,751	1,066,616	3,164,984
Capacity ton miles per truck							
For Hire	—	12,600	29,200	74,700	183,100	581,900	208,700
Private:							
Intercity and Urban	6,100*	10,100	31,100	46,800	124,100	311,800	17,200*
Urban	6,400	11,600	27,700	42,300	59,900	189,300	29,000
Farm	4,000	6,100	11,600	16,700	29,300	9,900	7,700
Total	4,900	7,300	17,000	30,600	138,400	492,400	28,700
Percentage of capacity utilized							
For Hire	—	29.8	45.8	41.3	49.9	50.9	49.5
Private:							
Intercity and Urban	8.6*	18.3	15.7	34.9	40.1	38.7	27.9*
Urban	18.5	27.8	15.8	32.8	43.2	40.2	34.3
Farm	16.1	23.0	29.7	34.5	37.6	10.2	27.2
Total	12.8	22.7	24.6	36.5	48.2	49.2	41.5

1. Capacity ton miles is determined by multiplying the actual total number of miles travelled by the difference between gross vehicle weight and estimated tare weight.

* See text, page 6 paragraph 3.

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
 January 1, 1956 – December 31, 1956

TABLE 5. Total Gross Ton Miles Performed¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For Hire	—	10,227	7,063	189,433	823,039	950,200	1,979,962
Private:							
Intercity and Urban	263,292	74,856	28,532	107,883	103,503	102,718	680,784
Urban	41,912	30,973	12,684	100,005	61,255	36,272	283,101
Farm	230,141	162,674	40,758	206,513	29,433	93	669,612
Total	535,345	278,730	89,037	603,834	1,017,230	1,089,283	3,613,459
Average gross ton miles per truck							
For Hire	—	23,200	39,200	78,300	180,900	605,600	213,200
Private:							
Intercity and Urban	13,000*	19,300	42,800	56,200	132,200	290,200	24,400*
Urban	13,400	18,900	29,800	42,600	59,900	159,100	32,200
Farm	7,500	9,200	13,800	17,500	28,700	6,200	10,400
Total	9,900	11,800	21,100	32,700	137,800	502,900	32,800

1. Gross ton miles performed is determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total mileage travelled.

* See text, page 6 paragraph 3.

Section I. Motor Truck Traffic Performed by Alberta Registered Trucks Inside and Outside the Province
 January 1, 1956 – December 31, 1956

TABLE 6. Total Revenue From Operations Performed by For Hire Carriers

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue	\$ —	597,000	318,000	7,987,000	29,240,000	28,765,000	66,907,000
Revenue per ton mile	¢ —	36.1	13.2	10.7	7.0	6.2	7.0
Revenue per mile (total mileage travelled) ¢	—	14.9	24.2	29.2	34.5	47.8	37.7
Average yearly revenue per truck	\$ —	1,400	1,800	3,300	6,400	18,300	7,200

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
 January 1, 1956 – December 31, 1956

TABLE 7. Miles Travelled Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs and over	Total
Total mileage travelled							
'000							
For Hire	—	3,991	1,316	27,317	77,700	43,616	153,940
Private:							
Intercity and Urban	157,611	29,512	6,417	17,240	12,401	6,731	229,912
Urban	24,554	11,989	3,016	16,448	7,305	2,921	66,233
Farm	133,094	64,056	8,540	33,932	3,821	12	243,485
Total	315,259	109,548	19,289	94,937	101,227	53,280	693,540

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 7. Miles Travelled Within the Province – Concluded

Type of operation	Gross vehicle weight groups							Total
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs and over		
Average yearly mileage per truck								
For Hire	—	9,100	7,300	11,300	17,100	27,800	16,600	
Private:								
Intercity and Urban	7,800*	7,600	9,600	9,000	15,800	19,000	8,200*	
Urban	7,800	7,300	7,100	7,000	7,100	12,800	7,500	
Farm	4,400	3,600	2,900	2,900	3,700	800	3,800	
Total	3,800	4,600	4,600	5,100	13,700	24,600	6,300	
Average journey (Average distance each ton of goods was carried)								
For Hire	—	30.3	29.0	29.2	26.8	89.8	38.8	
Private:								
Intercity and Urban	16.1*	20.0	28.4	30.2	24.4	35.7	26.9*	
Urban	14.1	11.6	8.4	6.4	4.8	5.5	5.9	
Farm	14.9	14.4	15.4	22.7	23.9	15.0	18.7	
Total	15.2	15.0	16.4	17.6	20.7	47.8	23.8	
Percentage of total mileage travelled empty								
For Hire	—	48.7	24.3	40.2	42.6	31.0	38.9	
Private:								
Intercity and Urban	69.6*	58.7	45.9	34.2	42.0	41.0	62.5*	
Urban	36.3	22.2	24.7	35.4	45.9	50.3	34.7	
Farm	61.6	53.7	46.0	42.8	44.3	52.6	56.1	
Total	63.6	51.4	41.2	39.2	42.8	33.3	52.4	

* See text, page 6 paragraph 3.

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 8. Fuel Consumption Within the Province

Type of operation	Gross vehicle weight groups							Total
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total	
Total gallons of gasoline consumed								
								'000
For Hire	—	297	121	3,123	11,306	7,073	21,920	
Private:								
Intercity and Urban	10,339	2,380	544	1,957	1,603	1,196	16,019	
Urban	1,783	1,053	303	2,063	1,202	587	6,991	
Farm	8,569	5,072	790	4,443	551	3	19,428	
Total	20,691	8,802	1,758	11,586	14,662	8,859	66,358	
Total gallons of diesel oil consumed								
								'000
For Hire	—	—	—	—	437	815	1,252	
Private:								
Intercity and Urban	—	—	—	—	—	—	—	
Urban	—	—	—	—	—	—	—	
Farm	—	—	—	—	437	815	1,252	
Total	—	—	—	—	437	815	1,252	

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 8. Fuel Consumption Within the Province – Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of other fuel consumed							
'000							
For Hire	—	67	—	208	613	446	1,334
Private:							
Intercity and Urban	32	6	46	139	304	152	679
Urban	—	—	13	12	69	42	136
Farm	—	—	—	—	—	—	—
Total	32	73	59	359	986	640	2,149
Miles per gallon of gasoline							
For Hire	—	11.2	10.9	8.2	6.3	5.2	6.2
Private:							
Intercity and Urban	15.2	12.4	11.0	8.3	6.7	5.2	12.5
Urban	13.8	11.4	9.6	7.9	5.8	4.7	9.4
Farm	15.5	12.6	10.8	7.6	6.9	4.0	12.5
Total	15.2	12.4	10.7	7.9	6.4	5.2	10.1
Miles per gallon of diesel oil							
For Hire	—	—	—	—	6.7	5.9	6.2
Private:							
Intercity and Urban	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—
Farm	—	—	—	—	—	—	—
Total	—	—	—	—	6.7	5.9	6.2
Miles per gallon of other fuel							
For Hire	—	10.0	—	8.4	5.1	4.7	5.7
Private:							
Intercity and Urban	13.3	10.1	9.0	7.0	5.4	3.1	5.8
Urban	—	—	8.6	8.0	5.2	4.0	5.4
Farm	—	—	—	—	—	—	—
Total	13.3	10.0	8.9	7.9	5.2	4.3	5.8

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 9. Goods Carried and Ton Miles Performed Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For Hire	—	54	83	2,552	12,948	3,529	19,166
Private:							
Intercity and Urban	656	356	114	1,034	1,547	1,102	4,809
Urban	263	454	222	5,124	5,497	3,179	14,739
Farm	1,324	1,727	662	2,992	473	1	7,179
Total	2,243	2,591	1,081	11,702	20,465	7,811	45,893
Average weight carried (Average weight of goods carried per one-way trip) ¹							
For Hire	—	.8	2.4	4.6	7.8	10.5	7.9
Private:							
Intercity and Urban .....	.2*	.6	.9	2.8	5.3	9.9	1.5*
Urban .....	.2	.6	.8	3.1	6.7	12.0	2.0
Farm .....	.4	.8	2.2	3.5	5.3	2.7	1.3
Total .....	.3	.7	1.6	3.6	7.3	10.5	3.3

1. Excludes vehicles making trips empty.

* See text, page 6 paragraph 3.

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 9. Goods Carried and Ton Miles Performed Within the Province – Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total ton miles performed							
'000							
For Hire	—	1,651	2,405	74,579	347,299	316,931	742,865
Private:							
Intercity and Urban	10,534	7,106	3,247	31,200	37,802	39,385	129,274
Urban	3,719	5,262	1,863	32,588	26,445	17,343	87,220
Farm	19,734	24,897	10,220	67,969	11,299	15	134,134
Total	33,987	38,916	17,735	206,336	422,845	373,674	1,093,493
Average ton miles per truck							
For Hire	—	3,800	13,400	30,800	76,300	202,000	80,000
Private:							
Intercity and Urban	500*	1,800	4,900	16,300	48,300	111,300	4,600*
Urban	1,200	3,200	4,400	13,900	25,900	76,100	9,900
Farm	700	1,400	3,500	5,800	11,000	1,000	2,100
Total	600	1,600	4,200	11,200	57,300	172,500	9,900

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 10. Truck Capacity Within the Province¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles							
'000							
For Hire	—	5,543	5,255	180,584	736,500	666,627	1,594,509
Private:							
Intercity and Urban	121,840	38,820	20,629	89,608	94,195	103,363	468,455
Urban	20,136	18,940	11,818	99,217	61,281	43,158	254,550
Farm	122,577	108,218	34,358	196,973	30,081	148	492,355
Total	264,553	171,521	72,060	566,382	922,057	813,296	2,809,869
Capacity ton miles per truck							
For Hire	—	12,600	29,200	74,700	161,800	424,900	171,700
Private:							
Intercity and Urban	6,000*	10,000	31,000	46,700	120,300	292,000	16,800*
Urban	6,400	11,600	27,700	42,300	59,900	189,300	29,000
Farm	4,000	6,100	11,600	16,700	29,300	9,900	7,700
Total	4,900	7,200	17,000	30,600	124,900	375,500	25,500
Percentage of capacity utilized							
For Hire	—	29.8	45.8	41.3	47.2	47.5	46.6
Private:							
Intercity and Urban	8.6*	18.3	15.7	34.8	40.1	38.1	27.6*
Urban	18.5	27.8	15.8	32.8	43.2	40.2	34.3
Farm	16.1	23.0	29.7	34.5	37.6	10.2	27.2
Total	12.8	22.7	24.6	36.4	45.9	45.9	38.9

1. Capacity ton miles is determined by multiplying the actual number of miles travelled within the province by the difference between gross vehicle weight and estimated tare weight.

* See text, page 6 paragraph 3.

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 — December 31, 1956

TABLE 11. Gross Ton Miles Performed Within the Province¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For Hire	—	10,227	7,063	189,300	720,137	673,036	1,599,763
Private:							
Intercity and Urban	260,301	74,242	28,532	105,631	100,419	95,030	664,155
Urban	41,912	30,973	12,684	100,005	61,255	36,272	283,101
Farm	230,141	162,674	40,758	206,513	29,433	93	669,612
Total	532,354	278,116	89,037	601,449	911,244	804,431	3,216,631
Average gross ton miles per truck							
For Hire	—	23,200	39,200	78,300	158,200	429,000	172,300
Private:							
Intercity and Urban	12,800*	19,100	42,800	55,000	128,300	268,500	23,800*
Urban	13,400	18,900	29,800	42,600	59,900	159,100	32,200
Farm	7,500	9,200	13,800	17,500	28,700	6,200	10,400
Total	9,800	11,700	21,100	32,500	123,400	371,400	29,200

1. Gross ton miles performed is determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total mileage travelled.

* See text, page 6 paragraph 3.

Section II. Motor Truck Traffic Performed by Alberta Registered Trucks Within the Province
January 1, 1956 — December 31, 1956

TABLE 12. Revenue From Operations Performed by For Hire Carriers Within the Province

Type of operation	Gross vehicle groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue	\$ —	597,000	318,000	7,984,000	26,476,000	20,359,000	55,734,000
Revenue per ton mile	¢ —	36.1	13.2	10.7	7.6	6.4	7.5
Revenue per mile (total mileage travelled)¢	—	14.9	24.2	29.2	34.1	46.7	36.2
Average yearly revenue per truck	\$ —	1,400	1,800	3,300	5,800	13,000	6,000

Section III. Motor Truck Traffic Performed by Alberta Registered Trucks Engaged in Interprovincial
and International Traffic January 1, 1956 — December 31, 1956

TABLE 13. Total Tons of Goods Carried Into and Out of Alberta, by Origin and Destination, by Type of Operation

Origin or destination	For hire trucks	Private intercity trucks	All trucks	'000 tons	
				'000 tons	'000 tons
To Ontario				19	—
From Ontario				41	—
To Manitoba				11	—
From Manitoba				11	—
To Saskatchewan				66	—
From Saskatchewan				29	—
To British Columbia				194	4
From British Columbia				55	7
To Northwest Territories				30	—
From Northwest Territories				2	—
To United States				2	2
From United States				19	2
Grand Total	To	From	All trucks	322	6
					328
				157	11
					168

Section III. Motor Truck Traffic Performed by Alberta Registered Trucks Engaged in Interprovincial and International Traffic

TABLE 14. Interprovincial and International Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire trucks			
	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	Tons	Miles
20,000 lbs. or less				
20,001-25,000 lbs.	7,851	102,610	13	413
25,001-30,000 "	473	5,089	11	699
30,001-35,000 "	1,603	10,418	7	1,338
35,001-40,000 "	2,784	18,527	7	1,417
40,001-45,000 "	7,124	78,616	11	624
45,001-50,000 "	—	—	—	—
50,001 and over	6,940	92,611	13	608
Total	26,775	307,871	12	576
Private intercity trucks				
	'000	'000	Tons	Miles
20,000 lbs. or less				
20,001-25,000 lbs.	—	—	—	—
25,001-30,000 "	280	1,730	6	154
30,001-35,000 "	—	—	—	—
35,001-40,000 "	—	—	—	—
40,001-45,000 "	29	29	1	80
45,001-50,000 "	275	1,613	6	880
50,001 and over	—	—	—	—
Total	120	1,279	11	220
	704	4,651	7	232

Section III. Motor Truck Traffic Performed by Alberta Registered Trucks Engaged in Interprovincial and International Traffic

TABLE 15. Commodities Carried by Alberta Registered Trucks in Interprovincial and International Traffic

Commodity classification	For hire trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	
	'000 tons	'000	'000	Tons	Miles	\$'000	Revenue per ton mile
Agricultural products	16	1,137	16,642	15	1,040	692	4.16
Animal and animal products	17	898	12,551	14	738	549	4.37
Mine products	12	264	3,169	12	264	156	4.92
Forest products	28	421	6,606	16	236	254	3.84
Manufacturing and miscellaneous	323	19,325	223,931	12	693	10,812	4.83
N.O.S. general freight	83	4,730	44,972	10	542	2,963	6.59
Total	479	26,775	307,871	12	643	15,426	5.01
Private intercity trucks							
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	Miles		
Agricultural products	—	—	—	—	—	—	
Animal and animal products	—	—	—	—	—	—	
Mine products	—	—	—	—	—	—	
Forest products	—	—	—	—	—	—	
Manufacturing and miscellaneous	17	704	4,651	7	274	—	
N.O.S. general freight	—	—	—	—	—	—	
Total	17	704	4,651	7	274		

Section IV. Motor Bus Traffic Performed by Alberta Registered Buses Inside and Outside the Province
 January 1, 1956 – December 31, 1956

TABLE 16. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 & over	Total
Mileage:					
Total yearly mileage	236,000	893,000	14,495,000	189,000	15,813,000
Average yearly mileage per bus	11,800	17,900	72,500	37,900	57,500
Average journey (average distance per passenger)	12.8	39.0	89.9	5.3	76.7
Fuel:					
Total gallons of gasoline consumed	16,000	167,000	1,350,000	46,000	1,579,000
Total gallons of diesel oil consumed	—	—	728,000	—	728,000
Miles per gallon of gasoline	14.9	5.3	6.1	4.1	6.0
Miles per gallon of diesel oil	—	—	8.6	—	8.6
Passengers and passenger miles:					
Total number of passengers carried	37,000	142,000	3,081,000	464,000	3,724,000
Total number of passenger miles	468,000	5,544,000	277,061,000	2,473,000	285,546,000
Average number of passengers carried per mile	2.0	6.2	19.1	13.1	18.1
Capacity:					
Total capacity seat miles	2,754,000	25,700,000	520,007,000	7,760,000	556,221,000
Percentage of capacity utilized	17.0	21.6	53.3	31.9	51.3
Revenue:					
Total passenger revenue	\$ 38,000	202,000	6,002,000	95,000	6,337,000
Revenue per mile (total mileage travelled)	¢ 16.3	22.6	41.4	50.5	40.1
Revenue per passenger mile	¢ 8.2	3.6	2.2	3.9	2.2
Revenue per bus	\$ 1,900	4,000	30,000	19,100	23,000

Section V. Motor Bus Traffic Performed by Alberta Registered Buses Within the Province
 January 1, 1956 – December 31, 1956

TABLE 17. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 & over	Total
Mileage:					
Total yearly mileage	236,000	893,000	7,232,000	189,000	8,550,000
Average yearly mileage per bus	11,800	17,900	36,200	37,900	31,100
Average journey (average distance per passenger)	12.8	39.0	65.9	5.3	53.4
Fuel:					
Total gallons of gasoline consumed	16,000	167,000	786,000	46,000	1,015,000
Total gallons of diesel oil consumed	—	—	283,000	—	283,000
Miles per gallon of gasoline	14.9	5.3	5.8	4.1	5.8
Miles per gallon of diesel oil	—	—	9.6	—	9.6
Passengers and passenger miles:					
Total number of passengers carried	37,000	142,000	2,083,000	464,000	2,726,000
Total number of passenger miles	468,000	5,544,000	137,169,000	2,473,000	145,654,000
Average number of passengers carried per mile	2.0	6.2	19.0	13.1	17.0
Capacity:					
Total capacity seat miles	2,754,000	25,700,000	253,313,000	7,760,000	289,527,000
Percentage of capacity utilized	17.0	21.6	54.2	31.9	50.3
Revenue:					
Total passenger revenue	\$ 38,000	202,000	2,759,000	95,000	3,094,000
Revenue per mile (total mileage travelled)	¢ 16.3	22.6	38.1	50.5	36.2
Revenue per passenger mile	¢ 8.2	3.6	2.0	3.9	2.1
Revenue per bus	\$ 1,900	4,000	13,800	19,100	11,300

APPENDIX I
Sampling Results

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Alberta truck population January 1, 1956 — December 31, 1956							
For Hire	126	441	180	2,418	4,551	1,569	9,285
Private:							
Intercity and Urban	20,304*	3,879	666	1,920	783	354	27,906*
Urban	3,132	1,638	426	2,346	1,023	228	8,793
Farm	30,590	17,761	2,957	11,810	1,026	15	64,159
Total	54,152	23,719	4,229	18,494	7,383	2,166	110,143
Total No. of trucks selected in samples							
For Hire	7	49	29	392	1,446	493	2,416
Private:							
Intercity and Urban	1,112	409	101	287	236	105	2,250
Urban	174	176	68	379	328	69	1,194
Farm	1,708	1,963	493	1,937	330	5	6,436
Total	3,001	2,597	691	2,995	2,340	672	12,296
No. of questionnaires returned complete							
For Hire	2	18	8	112	431	186	757
Private:							
Intercity and Urban	452	162	48	115	110	44	931
Urban	89	112	41	181	102	27	552
Farm	884	975	214	675	89	1	2,838
Total	1,427	1,267	311	1,083	732	258	5,078
No. of sampled trucks reported not in use during survey week							
For Hire	1	10	13	122	428	130	704
Private:							
Intercity and Urban	268	138	27	100	74	34	641
Urban	32	24	9	96	110	16	287
Farm	416	601	207	961	164	4	2,353
Total	717	773	256	1,279	776	184	3,985
No. of questionnaires returned incomplete and unusable							
For Hire	3	7	4	84	253	82	433
Private:							
Intercity and Urban	276	74	17	47	23	10	447
Urban	37	23	9	61	66	12	208
Farm	225	204	18	125	24	—	596
Total	541	308	48	317	366	104	1,684
No. of questionnaires not returned (non-respondents)							
For Hire	1	14	4	74	334	95	522
Private:							
Intercity and Urban	116	35	9	25	29	17	231
Urban	16	17	9	41	50	14	147
Farm	183	183	54	176	53	—	649
Total	316	249	76	316	466	126	1,549



MOTOR TRANSPORT TRAFFIC STATISTICS

PROVINCE OF ALBERTA

1957

Published by Authority of

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PROVINCE OF ALBERTA
JANUARY 1, 1957 — DECEMBER 31, 1957

CHART — 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

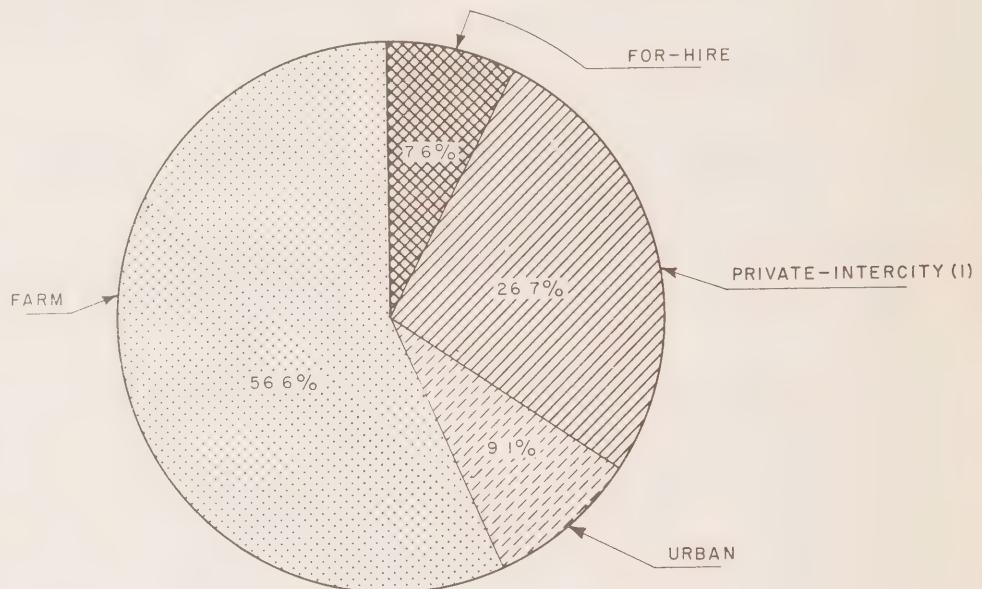
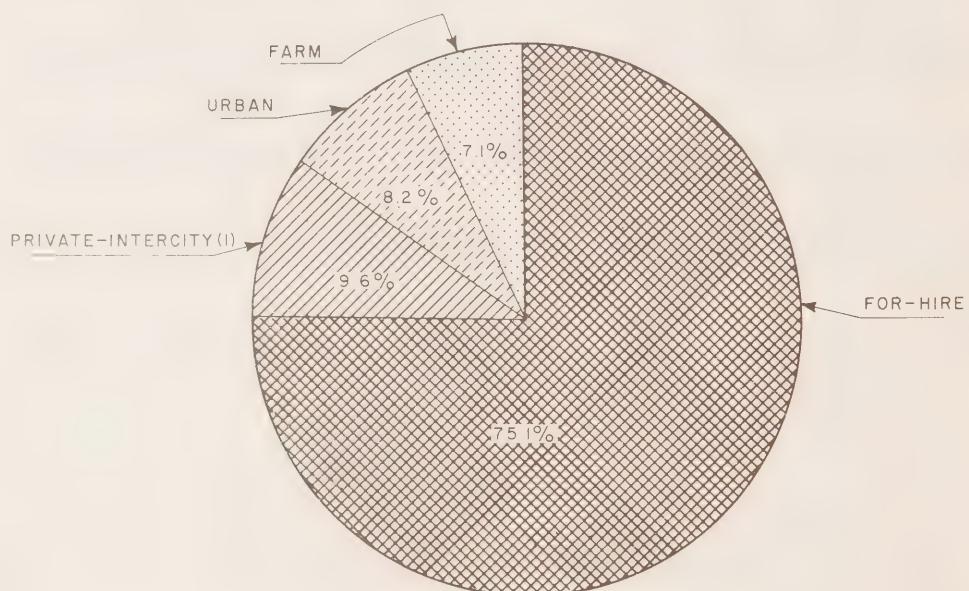


CHART — 2

NET TON MILES BY TYPE OF OPERATION



(I) INCLUDES SOME URBAN TRAFFIC. SEE EXPLANATION IN TEXT.

INTRODUCTION

This report presents the results of the annual survey of motor transport traffic conducted at three month intervals in the Province of Alberta during the period January 1, 1957 — December 31, 1957. This survey has been made possible through the excellent co-operation received from the trucking

industry and particularly from the officials of the Government of Alberta in allowing the Dominion Bureau of Statistics access to motor vehicle registration records from which samples of trucks and buses were selected.

General Description of the Sample

An overall annual sample of approximately 10 per cent of trucks and intercity buses registered in Alberta was selected for this survey. To allow for seasonal variations in motor transport traffic and to ensure that the sample vehicles represented current registrations in force, this annual survey was conducted in four quarterly segments with approximately 2½ per cent of total registrations sampled each quarter. Vehicles selected were coded so that a particular vehicle would not be chosen more than once during each licence year. Each quarterly segment of the survey ran for a seven day period, Sunday through Saturday.

All trucks and buses registered in the province are represented except those vehicles considered not providing transportation services; buses utilized for scheduled urban transit or school services; and, military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample were stratified by gross vehicle weight groups and by function or type of operation. The four functional categories used were: for-hire, private intercity, private urban and private farm. For-hire trucks are those operated for compensation or gain on intercity routes according to licence; private intercity are those which are owned and operated on intercity routes by business firms or individuals to transport their own raw materials, finished goods or merchandise; private urban vehicles are those which are operated predominantly within urban or metropolitan areas; and, private farm trucks are those operated by farmers primarily for the transport of farm produce and supplies or for service purposes. This stratification was made on the basis of the licensing system in Alberta maintaining comparability with other provinces wherever possible.

In Alberta, trucks operated for compensation or for-hire are classed as "Public Service Vehicles" and are registered according to type of operation. Public service vehicles used for the purpose of transporting grain, fodder, vegetables, lumber or any other designated commodity are issued with an "E" licence plate. Other public service vehicles used in intercity service are issued with a "P.S.V." plate. Those vehicles operated for compensation within a

city, town or village and within an area of a radius of five miles from the incorporated boundaries of such point of registration are issued with a "C" licence plate.

Private trucks (those not operated for compensation) are classed as "Commercial Vehicles" and are also issued with licence plates according to type of operation. Commercial vehicles as well as public service vehicles operated within a radius of five miles of a city, town or village are provided with a "C" licence plate. Vehicles used for personal transportation including goods which are the property of the owner, or vehicles operated by tradesmen or salesmen for conveyance of their own equipment or display goods are issued with an "X" licence plate. Commercial vehicles owned and operated by farmers and used solely in connection with their own farm operations are provided with an "F" licence. All other commercial vehicles are issued with a "CV" licence.

The operations of the "E" and "P.S.V." licensed vehicles comprise the for-hire class throughout this publication. For complete coverage of the for-hire category, the public service vehicles operating under the "C" licence plate should also be included but as some commercial or private vehicles also operate under a "C" licence, this was not possible. Therefore it was decided to include all urban vehicles operating under the "C" type of licence in the private urban category. As a result, the data shown throughout this report as "for-hire" is understated and that for "private urban" is overstated by the operations of urban public service vehicles classified as private urban.

Commercial vehicles operating under the "CV" and "X" types of licence, which are not restricted as to area of operation, were classed as private intercity. It is known that a large number of vehicles particularly in the under 5,000 lb. gross vehicle weight group are engaged primarily in urban operations and should therefore be included in the private urban category. But as with the "C" licence, a breakdown of these vehicles into intercity and urban is not possible under the existing licensing system. Therefore the data shown as private urban is understated and that for private intercity is overstated by the operations of private urban vehicles classified as private intercity.

REVIEW OF SURVEY RESULTS

The statistical data from these surveys have been divided into six parts or sections according to type of traffic: Section I contains estimates of total traffic performed by all Alberta registered trucks for operations carried out both inside and outside the province. Section II shows estimates of total truck traffic performed inside the boundaries of the province (within the province). The latter estimates include that portion of interprovincial and international traffic performed within the boundaries of Alberta. Section III shows estimates of for-hire and private intercity truck traffic associated with trips originating and terminating inside the provincial boundaries of Alberta (Intraprovincial Traffic). Section IV provides data relating to the operations of Alberta registered trucks engaged in traffic between Alberta and other provinces or the United States (Interprovincial and International Traffic). These estimates include that portion of this traffic performed within the boundaries of Alberta as well as that performed outside Alberta. Estimates of traffic performed by Alberta registered buses both inside and outside the province are contained in Section V while traffic data within the province are found in Section VI.

Excluding vehicles which do not perform transportation services, the average number of trucks registered in Alberta during the year was 111,171. Of this number 8,499 or 7.6 per cent were common or for hire carriers and 102,672 or 92.4 per cent were private. The number of farm trucks, used mainly in the growing, servicing and marketing activities of farmers, equalled 62,931 or 56.6 per cent of the Alberta total; 10,080 or 9.1 per cent were private trucks restricted to urban areas; and, 29,661 or 26.7 per cent were private intercity and urban vehicles owned and operated by business, industry and individuals to transport and distribute their own goods and merchandise.

In the tables presented herein, blanks appear in a number of places where no vehicles for these particular weight classifications were chosen in any of the quarterly sample selections. It does not necessarily follow that there are no vehicles in the province belonging to these weight classifications.

Section I: The total number of miles travelled by all trucks registered in Alberta, intraprovincially, interprovincially and extraprovincially (traffic performed entirely outside the province) during the twelve month period ending December 31, 1957 amounted to 709.6 million, of which 173.6 million miles or 24.5 per cent were accumulated by for-hire trucks and 259.8 million or 36.6 per cent by private intercity trucks. On the average, trucks registered in the province travelled 6,400 miles during the year and each ton of goods was carried an average distance of 26.6 miles. For-hire trucks averaged 20,400 miles during the period as compared with an average of 8,800 miles for private intercity vehicles and carried goods 62.5 per cent of the time as against 34.8 per cent for private intercity trucks. For-hire

and private intercity trucks carried each ton of goods an average distance of 47.7 and 34.6 miles respectively.

The amount of fuel consumed by all trucks licensed in Alberta totalled 64.1 million imperial gallons of gasoline, 6.1 million gallons of diesel oil and 1.0 million gallons of other fuel. As there were relatively few trucks included in the survey which were not gasoline trucks, the estimates of the amount of diesel oil and other fuel consumed are likely not very reliable and should therefore be used with caution. Miles per gallon of gasoline varied from 6.7 for the common carriers to 13.1 for private intercity vehicles. The average for all gasoline trucks amounted to 10.4 miles per gallon, for all diesel trucks 5.5 miles per gallon and for trucks consuming other fuel 6.4 miles per gallon.

The total weight of goods transported by all trucks registered in the province amounted to 50.9 million short tons. Farm trucks carried 6.4 million tons or 12.5 per cent of the total, private urban trucks transported 19.4 million tons or 38.1 per cent; private intercity trucks 3.8 million tons or 7.4 per cent and for-hire carriers transported 21.4 million tons or 42.0 per cent of the total. Net ton miles performed aggregated 1,355 million, an average of 12,200 net ton miles per vehicle.

Total capacity ton miles amounted to 3,147 million, an average of 28,300 capacity ton miles per vehicle. The percentage of capacity utilized was 43.1 for all trucks and 51.3 per cent for the for-hire group. Gross ton miles aggregated 3,720 million, an average of 33,500 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to 64.4 million dollars or 7,600 dollars per vehicle. Revenue per ton mile was 6.3 cents whereas revenue per total mile amounted to 37.1 cents.

Section II: The number of miles travelled by Alberta registered trucks within the province amounted to 668 million compared with the grand total of 710 million miles travelled both inside and outside the province. The yearly mileage per truck averaged 6,000 miles as against 6,400.

The total volume of goods carried in Alberta amounted to 50.5 million tons. Net ton miles totalled 1,002 million, as compared with 1,355 million inside and outside the province, and average net ton miles per vehicle dropped to 9,000 from 12,200. Similarly, the average weight carried per vehicle amounted to 3.4 tons as compared with 4.2 tons and the average distance each ton of goods was carried within the province was 19.9 miles as against 26.6 miles.

Total revenue received by common carriers for the transportation of goods on Alberta streets and highways amounted to 48.7 million dollars, an average of 5,700 dollars per vehicle and 7.2 cents per ton mile.

Section III: Estimates of the intraprovincial traffic by Alberta for-hire and private intercity trucks shown in tables 1 and 2 relate only to intercity operations but exclude the portion of interprovincial and international traffic performed within the province as well as traffic performed entirely outside the province. The total weight of goods transported by these vehicles performing intercity services within the provincial boundaries only was 19.0 million tons, compared with 25.1 million tons transported inside and outside the province. For-hire carriers transported 16.8 million tons and revenue received amounted to 40.1 million dollars at an average rate of 7.4 cents per ton mile. Each ton of goods carried by for-hire carriers was transported an average distance of 32.4 miles. Mine products totalling 10.9 million tons were the chief commodities transported for which revenue of 8.8 million dollars was received. Net ton miles performed in transporting mine products amounted to 123.0 million and the average revenue per ton mile was 7.2 cents.

Private intercity vehicles engaged in intraprovincial service only transported 2.2 million tons of goods, 1.6 million tons of which were manufactures and miscellaneous items.

Section IV: The total volume of goods transported by Alberta registered trucks engaged in interprovincial and international service is estimated at 436,000 tons, of which 411,000 tons or 94.3 per cent were transported by for-hire or common carriers. Of a total of 261,000 tons carried out of Alberta, 154,000 tons or 59.0 per cent were destined to British Columbia and 38,000 tons were transported to Saskatchewan. The majority of goods brought into Alberta originated in British Columbia and Ontario.

Table 2 shows interprovincial and international traffic by gross vehicle weight groups and by class of carrier. Of total traffic amounting to 376.9 million ton miles, almost 98.2 per cent was performed by for-hire carriers, with nearly 57.1 per cent of the total traffic performed by trucks with a gross vehicle weight of over 50,000 pounds. The average weight carried by for-hire trucks was 12.4 tons compared to 1.6 tons by private intercity vehicles.

The total volume of goods transported by for-hire carriers engaged in interprovincial and international service was 411,000 tons with each ton transported an average distance of 900.1 miles. Total revenue received amounted to 17.2 million dollars at an average rate of 4.6 cents per ton mile. Manufactures and miscellaneous items amounting to

235,000 tons were the chief commodities transported by for-hire carriers for which revenue of 7.9 million dollars was received.

Private intercity vehicles engaged in interprovincial and international service transported 25,000 tons of goods of which 23,000 tons or 92.0 per cent were manufactures or miscellaneous items and 2,000 tons or 8.0 per cent were mine products.

Section V: The total number of passengers carried inside and outside the province by intercity buses licensed in Alberta during the twelve month period January 1, 1957 to December 31, 1957 is estimated at 2.4 million. In transporting this number of passengers, buses travelled 14.1 million miles, an average of 56,600 miles per bus. The average distance each passenger was carried was 89.3 miles and the total number of passenger miles performed was 218.0 million. For each mile travelled, buses carried an average of 15.4 passengers. Capacity seat miles performed amounted to 493.8 million indicating that the average capacity utilized was 44.2 per cent.

In travelling this number of miles, buses used 696,000 gallons of gasoline and 1.2 million gallons of diesel oil. Gasoline engined buses averaged 6.5 miles per gallon and those using diesel oil, 8.1 miles per gallon.

Total revenue received for the transportation of passengers amounted to 5.8 million dollars, an average of 23,100 dollars per bus, 40.9 cents per total mile or 2.7 cents per passenger mile.

Section VI: Within Alberta alone, buses travelled a distance of 10.2 million miles using approximately 715,000 gallons of gasoline and 714,000 gallons of diesel oil. Estimated passenger miles performed totalled 144.9 million and per cent capacity utilized was 42.1. Passenger revenue received amounted to almost 4 million dollars, an average of 15,900 dollars per bus at the rate of 2.8 cents per passenger mile.

Appendix: The appendix to this report provides an analysis of the sampling response as well as the estimated average Alberta truck population for the year. During the year, survey questionnaires were sent to the owners or operators of 12,170 motor vehicles. Of this number 5,187 questionnaires were returned completed and 4,164 vehicles were reported not used during the survey week. In addition, 1,578 questionnaires were returned with insufficient information and were therefore unusable. Non response to the survey totalled 1,241 or 10.2 per cent.

SECTION I. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. By Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	173,560	259,815	66,388	209,800
Average yearly mileage per truck		20,400	8,800	6,600	3,300
Average distance each ton was carried		47.7	34.6	5.7	15.1
Percentage of total mileage travelled empty		37.5	65.2	34.7	60.3
					709,563
					6,400
					26.6
					54.1
Fuel:					
Total gallons of gasoline consumed	'000	20,459	19,562	7,646	18,449
Miles per gallon of gasoline		6.7	13.1	8.7	12.8
Total gallons of diesel oil consumed	'000	6,139	—	—	—
Miles per gallon of diesel oil		5.5	—	—	—
Total gallons of other fuel consumed	'000	354	639	12	—
Miles per gallon of other fuel		6.2	6.6	6.5	—
					6.4
Weight of goods carried:					
Total tons of goods carried	'000	21,352	3,762	19,384	6,388
Average weight carried ¹	ton	9.4	1.4	2.5	1.2
					50,886
					4.2
Net ton miles:					
Total net ton miles performed	'000	1,018,075	130,050	110,420	96,528
Average net ton miles per truck		119,800	4,400	11,000	1,500
					1,355,073
					12,200
Capacity ton miles:					
Total capacity ton miles ²	'000	1,983,277	490,478	287,583	385,971
Average capacity ton miles per truck		233,400	16,500	28,500	6,100
Percentage of capacity utilized		51.3	26.5	38.4	25.0
					3,147,309
					28,300
					43.1
Gross ton miles:					
Total gross ton miles ³	'000	2,152,830	699,489	323,332	544,652
Average gross ton miles per truck		253,300	23,600	32,100	8,700
					3,720,303
					33,500
Revenue:					
Total revenue	\$'000	64,427	—	—	—
Revenue per ton mile	¢	6.3	—	—	—
Revenue per mile (total mileage travelled)	¢	37.1	—	—	—
Average yearly revenue per truck	\$	7,600	—	—	—

TABLE 2. By Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Mileage:							
Total mileage travelled	'000	322,149	109,532	21,444	67,265	97,071	92,102
Average yearly mileage per truck		5,800	4,600	4,800	4,000	12,800	32,900
Average distance each ton was carried		15.4	14.7	18.6	14.8	15.1	64.4
Percentage of total mileage travelled empty		67.6	52.1	46.6	42.2	44.0	30.6
							54.1
Fuel:							
Total gallons of gasoline consumed	'000	21,100	8,578	2,160	8,028	13,270	10,980
Miles per gallon of gasoline		15.3	12.7	9.9	8.2	6.7	5.6
Total gallons of diesel oil consumed	'000	—	—	—	—	799	5,340
Miles per gallon of diesel oil		—	—	—	—	6.2	5.4
Total gallons of other fuel consumed	'000	18	29	—	120	524	314
Miles per gallon of other fuel		15.8	10.6	—	10.2	6.5	4.0
							6.4
Weight of goods carried:							
Total tons of goods carried	'000	1,865	2,559	1,001	8,831	24,716	11,914
Average weight carried ¹	ton	.3	7	1.6	3.4	6.8	12.0
							50,886
							4.2
Net ton miles:							
Total net ton miles performed	'000	28,774	37,716	18,576	130,452	372,460	767,095
Average net ton miles per truck		500	1,600	4,100	7,800	49,100	273,800
							1,355,073
							12,200
Capacity ton miles:							
Total capacity ton miles ²	'000	256,693	160,461	74,281	382,796	849,769	1,423,309
Average capacity ton miles per truck		4,600	6,700	16,600	23,000	112,000	508,000
Percentage of capacity utilized		11.2	23.5	25.0	34.1	43.8	53.9
							43.1
Gross ton miles:							
Total gross ton miles ³	'000	537,487	271,986	93,635	407,940	841,058	1,568,197
Average gross ton miles per truck		9,700	11,300	20,900	24,500	110,900	559,700
							3,720,303
							33,500

TABLE 3. By Gross Vehicle Weight Groups — For Hire Trucks

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000	390	3,313	4,646	19,086	67,650	78,475
Average yearly mileage per truck		3,100	7,400	20,400	9,800	17,300	42,700
Average distance each ton was carried		5.6	41.3	37.2	19.1	22.7	108.7
Percentage of total mileage travelled empty		45.1	28.8	67.5	43.8	44.1	28.9
Fuel:							
Total gallons of gasoline consumed	'000	31	262	518	2,249	9,032	8,367
Miles per gallon of gasoline		12.6	12.6	9.0	8.5	6.8	5.8
Total gallons of diesel oil consumed	'000	—	—	—	—	799	5,340
Miles per gallon of diesel oil		—	—	—	—	6.2	5.4
Total gallons of other fuel consumed	'000	—	—	—	2	206	146
Miles per gallon of other fuel		—	—	—	12.3	7.7	4.0
Weight of goods carried:							
Total tons of goods carried	'000	29	54	84	2,386	12,516	6,283
Average weight carried ¹	ton	.8	.9	2.1	4.3	7.5	12.2
Net ton miles:							
Total net ton miles performed	'000	161	2,231	3,125	45,623	283,819	683,116
Average net ton miles per truck		1,300	5,000	13,700	23,500	72,400	371,500
Capacity ton miles:							
Total capacity ton miles ²	'000	542	5,446	16,422	114,579	617,439	1,228,849
Average capacity ton miles per truck		4,300	12,100	72,000	59,100	157,600	668,200
Percentage of capacity utilized		29.7	40.0	19.0	40.0	46.0	55.6
Gross ton miles:							
Total gross ton miles ³	'000	789	9,371	18,889	125,973	610,542	1,387,266
Average gross ton miles per truck		6,300	20,800	82,800	65,000	155,800	754,400
Revenue:							
Total revenue	\$'000	24	503	566	5,622	22,196	35,516
Revenue per ton mile	¢	15.1	22.5	18.1	12.3	7.8	5.2
Revenue per mile (total mileage travelled)	¢	6.2	15.2	12.2	29.5	32.8	45.3
Average yearly revenue per truck	\$	200	1,100	2,500	2,900	5,700	19,300
							7,600

TABLE 4. By Gross Vehicle Weight Groups — Private Intercity Trucks

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000	181,253	37,883	7,085	13,847	12,542	7,205
Average yearly mileage per truck		8,600	8,100	9,900	7,600	13,200	20,700
Average distance each ton was carried		23.9	24.7	55.1	27.0	27.4	69.0
Percentage of total mileage travelled empty		71.2	62.1	38.9	43.5	43.6	35.3
Fuel:							
Total gallons of gasoline consumed	'000	11,391	2,897	682	1,620	1,717	1,255
Miles per gallon of gasoline		15.9	13.0	10.4	7.9	6.3	5.2
Total gallons of diesel oil consumed	'000	—	—	—	—	—	—
Miles per gallon of diesel oil		—	—	—	—	—	—
Total gallons of other fuel consumed	'000	18	30	—	106	318	167
Miles per gallon of other fuel		15.8	10.6	—	10.6	5.7	4.0
Weight of goods carried:							
Total tons of goods carried	'000	531	336	89	837	1,306	663
Average weight carried ¹	ton	.2	.6	1.1	2.9	5.1	9.8
Net ton miles:							
Total net ton miles performed	'000	12,703	8,286	4,900	22,576	35,830	45,755
Average net ton miles per truck		600	1,800	6,900	12,400	37,700	131,500
Capacity ton miles:							
Total capacity ton miles ²	'000	141,436	47,977	21,906	76,338	98,171	104,650
Average capacity ton miles per truck		6,700	10,200	30,700	42,000	103,200	300,700
Percentage of capacity utilized		9.0	17.3	22.4	29.6	36.5	43.7
Gross ton miles:							
Total gross ton miles ³	'000	302,640	89,488	29,846	80,641	97,458	99,416
Average gross ton miles per truck		14,300	19,000	41,800	44,400	102,500	285,700
							699,489
							23,600

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1-DECEMBER 31, 1957

TABLE 1. By Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	138,876	252,544	66,388	209,800
Average yearly mileage per truck		16,300	8,500	6,600	3,300
Average distance each ton was carried		32.1	32.8	5.7	15.1
Percentage of total mileage travelled empty		42.4	65.2	34.7	60.3
Fuel:					
Total gallons of gasoline consumed	'000	18,539	18,748	7,646	16,449
Miles per gallon of gasoline		6.6	13.3	8.7	12.8
Total gallons of diesel oil consumed	'000	2,600	—	—	—
Miles per gallon of diesel oil		5.4	—	—	—
Total gallons of other fuel consumed	'000	319	600	12	—
Miles per gallon of other fuel		6.4	6.4	6.5	—
Weight of goods carried:					
Total tons of goods carried	'000	20,989	3,696	19,384	6,388
Average weight carried ¹	ton	8.4	1.4	2.5	1.2
Net ton miles:					
Total net ton miles performed	'000	673,644	121,056	110,420	96,528
Average net ton miles per truck		79,300	4,100	11,000	1,500
Capacity ton miles:					
Total capacity ton miles ²	'000	1,492,745	468,427	287,583	385,971
Average capacity ton miles per truck		175,600	15,800	28,500	6,100
Percentage of capacity utilized		45.1	25.8	38.4	25.0
Gross ton miles:					
Total gross ton miles ³	'000	1,500,380	626,010	323,332	544,652
Average gross ton miles per truck		176,500	21,100	32,100	8,700
Revenue:					
Total revenue	\$'000	48,652	—	—	—
Revenue per ton mile	¢	7.2	—	—	—
Revenue per mile (total mileage travelled)	¢	35.0	—	—	—
Average yearly revenue per truck	\$	5,700	—	—	—

TABLE 2. By Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Mileage:							
Total mileage travelled	'000	318,428	108,580	19,346	65,963	92,492	62,799
Average yearly mileage per truck		5,700	4,500	4,300	4,000	12,200	22,400
Average distance each ton was carried		15.2	14.7	18.2	14.4	13.7	38.7
Percentage of total mileage travelled empty		67.4	51.7	44.5	42.4	44.9	38.5
Fuel:							
Total gallons of gasoline consumed	'000	20,820	8,476	1,953	7,868	12,870	9,395
Miles per gallon of gasoline		15.3	12.8	9.9	8.3	6.7	5.4
Total gallons of diesel oil consumed	'000	—	—	—	—	451	2,149
Miles per gallon of diesel oil		—	—	—	—	6.1	5.2
Total gallons of other fuel consumed	'000	18	30	—	91	524	268
Miles per gallon of other fuel		15.8	10.6	—	9.6	6.5	4.0
Weight of goods carried:							
Total tons of goods carried	'000	1,856	2,559	1,000	8,799	24,483	11,760
Average weight carried ¹	ton	.3	7	1.7	3.3	6.6	11.8
Net ton miles:							
Total net ton miles performed	'000	28,213	37,707	18,202	126,269	336,139	455,118
Average net ton miles per truck		500	1,600	4,100	7,600	44,300	162,400
Capacity ton miles:							
Total capacity ton miles ²	'000	253,468	159,249	69,348	374,460	798,818	979,383
Average capacity ton miles per truck		4,600	6,600	15,500	22,500	105,300	349,500
Percentage of capacity utilized		11.1	23.7	26.2	33.7	42.1	46.5
Gross ton miles:							
Total gross ton miles ³	'000	486,923	269,999	86,758	398,127	783,582	968,985
Average gross ton miles per truck		8,700	11,300	19,300	23,900	103,300	345,800

TABLE 3. By Gross Vehicle Weight Groups — For Hire Trucks

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000	390	3,313	3,690	18,292	63,298	49,893
Average yearly mileage per truck		3,100	7,400	16,200	9,400	16,200	27,100
Average distance each ton was carried		5.6	41.5	37.2	17.7	20.2	61.2
Percentage of total mileage travelled empty		45.1	28.8	59.0	44.1	45.4	37.5
Fuel:							
Total gallons of gasoline consumed	'000	31	262	416	2,113	8,796	6,921
Miles per gallon of gasoline		12.6	12.6	8.9	8.7	6.7	5.5
Total gallons of diesel oil consumed	'000	—	—	—	—	451	2,149
Miles per gallon of diesel oil		—	—	—	—	6.1	5.2
Total gallons of other fuel consumed	'000	—	—	—	1	206	112
Miles per gallon of other fuel		—	—	—	12.3	7.7	4.0
Weight of goods carried:							
Total tons of goods carried	'000	29	54	84	2,353	12,285	6,184
Average weight carried ¹	ton	.8	.9	2.1	4.1	7.2	12.1
Net ton miles:							
Total net ton miles performed	'000	161	2,231	3,125	41,679	248,180	373,288
Average net ton miles per truck		1,300	5,000	13,700	21,500	63,300	205,700
Capacity ton miles:							
Total capacity ton miles ²	'000	542	5,446	14,319	108,841	568,121	795,476
Average capacity ton miles per truck		4,300	12,100	62,800	56,200	145,000	432,600
Percentage of capacity utilized		29.7	41.0	21.8	38.3	43.7	47.6
Gross ton miles:							
Total gross ton miles ³	'000	789	9,371	16,020	118,638	554,828	800,734
Average gross ton miles per truck		6,300	20,800	70,300	61,200	141,600	435,400
Revenue:							
Total revenue	\$'000	24	503	566	5,105	20,199	22,255
Revenue per ton mile	¢	15.1	22.5	18.1	12.2	8.1	5.9
Revenue per mile (total mileage travelled)	¢	6.2	15.2	15.3	27.9	31.9	44.6
Average yearly revenue per truck	\$	200	1,100	2,500	2,600	5,200	12,100
							5,700

TABLE 4. By Gross Vehicle Weight Group — Private Intercity Trucks

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000	177,532	36,930	5,944	13,338	12,316	6,484
Average yearly mileage per truck		8,400	7,900	8,300	7,300	13,000	18,600
Average distance each ton was carried		23.3	24.6	51.4	26.7	26.9	63.5
Percentage of total mileage travelled empty		71.0	61.2	39.2	44.0	43.5	38.0
Fuel:							
Total gallons of gasoline consumed	'000	11,111	2,795	578	1,597	1,553	1,114
Miles per gallon of gasoline		16.0	13.1	10.3	7.9	6.8	5.3
Total gallons of diesel oil consumed	'000	—	—	—	—	—	—
Miles per gallon of diesel oil		—	—	—	—	—	—
Total gallons of other fuel consumed	'000	18	29	—	79	318	156
Miles per gallon of other fuel		15.8	10.6	—	10.0	5.7	4.1
Weight of goods carried:							
Total tons of goods carried	'000	522	336	88	837	1,305	608
Average weight carried ¹	ton	.2	.6	1.3	3.0	5.0	9.6
Net ton miles:							
Total net ton miles performed	'000	12,142	8,277	4,526	22,337	35,148	38,626
Average net ton miles per truck		600	1,800	6,300	12,300	37,000	111,000
Capacity ton miles:							
Total capacity ton miles ²	'000	138,210	46,766	19,077	73,740	96,537	94,097
Average capacity ton miles per truck		6,500	10,000	26,700	40,600	101,500	270,400
Percentage of capacity utilized		8.8	17.7	23.7	30.3	36.4	41.0
Gross ton miles:							
Total gross ton miles ³	'000	252,076	87,501	25,837	78,164	95,696	86,736
Average gross ton miles per truck		11,900	18,600	36,200	43,000	100,600	249,200
							626,010
							21,100

TABLE 5. By Gross Vehicle Weight Groups — Private Urban Trucks

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000 21,717	13,101	2,949	10,000	12,198	6,423	66,388
Average yearly mileage per truck	5,800	7,000	6,100	5,300	8,300	10,700	6,600
Average distance each ton was carried	11.4	9.9	10.0	6.1	4.1	7.7	5.7
Percentage of total mileage travelled empty	39.2	21.8	27.4	27.7	41.8	46.2	34.7
Fuel:							
Total gallons of gasoline consumed	'000 1,588	1,159	333	1,340	1,867	1,359	7,646
Miles per gallon of gasoline	13.7	11.3	8.9	7.4	6.5	4.7	8.7
Total gallons of diesel oil consumed	'000 —	—	—	—	—	—	—
Miles per gallon of diesel oil	—	—	—	—	—	—	—
Total gallons of other fuel consumed	'000 —	—	—	12	—	—	12
Miles per gallon of other fuel	—	—	—	6.5	—	—	6.5
Weight of goods carried:							
Total tons of goods carried	'000 295	607	298	3,067	10,150	4,967	19,384
Average weight carried ¹	ton .3	.6	1.4	2.6	5.8	11.1	2.5
Net ton miles:							
Total net ton miles performed	'000 3,372	6,031	2,976	18,673	41,145	38,223	110,420
Average ton miles per truck	900	3,200	6,200	9,800	27,900	63,700	11,000
Capacity ton miles:							
Total capacity ton miles ²	'000 16,703	18,520	10,840	52,760	98,950	89,810	287,583
Average capacity ton miles per truck	4,500	9,800	22,600	27,700	67,200	149,700	28,500
Percentage of capacity utilized	20.2	32.6	27.5	35.4	41.6	42.6	38.4
Gross ton miles:							
Total gross ton miles ³	'000 36,716	34,063	13,327	58,516	99,195	81,515	323,332
Average gross ton miles per truck	9,800	18,100	27,800	30,800	67,300	135,900	32,100

TABLE 6. By Gross Vehicle Weight Groups — Private Farm Trucks

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000 118,788	55,235	6,763	24,333	4,681	—	209,800
Average yearly mileage per truck	3,900	3,300	2,200	2,200	3,800	—	3,300
Average distance each ton was carried	12.4	13.5	14.3	17.1	15.7	—	15.1
Percentage of total mileage travelled empty	67.3	53.8	48.6	46.3	49.1	—	60.3
Fuel:							
Total gallons of gasoline consumed	'000 8,090	4,260	627	2,818	654	—	16,449
Miles per gallon of gasoline	14.7	13.0	10.8	8.6	7.2	—	12.8
Total gallons of diesel oil consumed	'000 —	—	—	—	—	—	—
Miles per gallon of diesel oil	—	—	—	—	—	—	—
Total gallons of other fuel consumed	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000 1,010	1,563	530	2,542	743	—	6,388
Average weight carried ¹	ton .3	.8	2.2	3.3	4.9	—	1.2
Net ton miles:							
Total net ton miles performed	'000 12,538	21,168	7,576	43,580	11,666	—	96,528
Average net ton miles per truck	400	1,200	2,500	4,000	9,400	—	1,500
Capacity ton miles:							
Total capacity ton miles ²	'000 98,012	88,518	25,112	139,119	35,210	—	385,971
Average capacity ton miles per truck	3,200	5,200	8,200	12,700	28,300	—	6,100
Percentage of capacity utilized	12.8	23.9	30.2	31.3	33.1	—	25.0
Gross ton miles:							
Total gross ton miles ³	'000 197,342	139,064	31,574	142,809	33,863	—	544,652
Average gross ton miles per truck	6,400	8,200	10,300	13,000	27,200	—	8,700

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

TABLE 7. Selected Statistics of Intercity Traffic By Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
10,000 lbs. and under	'000 tons	'000	'000	tons	miles	\$'000	¢
10,001-20,000 lbs.	83	2,572	2,392	0.9	28.8	527	22.0
20,001-30,000 lbs.	2,438	11,737	44,804	3.8	18.4	5,671	12.7
30,001-50,000 lbs.	12,285	34,548	248,180	7.2	20.2	20,199	8.1
50,001 lbs. and over	4,147	15,817	163,521	10.3	39.4	10,033	6.1
Total	2,036	15,347	214,747	14.0	105.5	12,222	5.7
Total	20,989	80,021	673,644	8.4	32.1	48,652	7.2
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	858	65,857	20,419	0.3	23.8		
10,001-20,000 lbs.	925	11,082	26,863	2.4	29.1		
20,001-30,000 lbs.	1,305	6,962	35,148	5.0	26.9		
30,001-50,000 lbs.	375	2,917	26,217	9.0	69.9		
50,001 lbs. and over	233	1,102	12,409	11.3	53.3		
Total	3,696	87,920	121,056	1.4	32.8		

SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. Selected Statistics By Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
10,000 lbs. and under	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under	33	2,226	2,054	0.9	62.2	396	19.3
10,001-20,000 lbs.	1,565	9,840	38,070	3.9	24.3	4,719	12.4
20,001-30,000 lbs.	10,273	30,676	215,710	7.0	21.0	17,436	8.1
30,001-50,000 lbs.	3,179	13,381	137,073	10.2	43.1	8,245	6.0
50,001 lbs. and over	1,705	11,029	149,291	13.5	87.6	9,332	6.3
Total	16,755	67,152	542,198	8.1	32.4	40,128	7.4
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	407	39,865	12,934	0.3	31.8		
10,001-20,000 lbs.	716	8,296	24,112	2.9	33.7		
20,001-30,000 lbs.	733	5,219	28,067	5.4	38.3		
30,001-50,000 lbs.	235	2,578	23,201	9.0	98.7		
50,001 lbs. and over	119	627	6,923	11.0	58.2		
Total	2,210	56,585	95,237	1.7	43.1		

TABLE 2. Selected Statistics By Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total Revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products.....	586	3,393	26,041	7.7	44.4	1,612	6.2
Animals and animal products.....	657	9,101	42,280	4.6	64.4	3,827	9.1
Mine products.....	10,912	12,653	123,030	9.7	11.3	8,814	7.2
Forest products.....	556	4,183	31,246	7.5	56.2	2,292	7.3
Manufactures and miscellaneous.....	2,859	24,923	238,530	9.6	83.4	15,315	6.4
N.O.S. general freight.....	1,185	12,899	81,071	6.3	68.4	8,268	10.2
Total	16,755	67,152	542,198	8.1	32.4	40,128	7.4
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	99	1,683	7,581	4.5	76.6		
Animals and animal products	42	2,382	1,996	0.8	47.5		
Mine products	300	478	2,649	5.5	8.8		
Forest products	38	776	3,117	4.0	82.0		
Manufactures and miscellaneous	1,562	45,157	75,749	1.7	48.5		
N.O.S. general freight	169	6,109	4,145	0.7	24.5		
Total	2,210	56,585	95,237	1.7	43.1		

SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. Tons of Goods Carried

Origin or destination	For hire			Private intercity			Total		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-
Quebec	19	9	28	-	-	-	19	9	28
Ontario	36	26	62	-	-	-	36	26	62
Manitoba	21	25	46	-	4	4	21	29	50
Saskatchewan	4	32	36	4	6	10	8	38	46
British Columbia	68	151	219	2	3	5	70	154	224
United States	20	-	20	1	5	6	21	5	26
Total	168	243	411	7	18	25	175	261	436

TABLE 2. Selected Statistics By Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under	—	—	—	—	—	—	—
10,001 - 20,000 lbs.	10	285	883	3.1	88.3	43	4.9
20,001 - 30,000 lbs.	85	4,387	50,452	11.5	593.6	2,306	4.6
30,001 - 50,000 lbs.	81	9,805	103,455	10.6	1,277.2	5,698	5.5
50,001 lbs. and over	235	15,324	215,144	14.0	915.5	9,109	4.2
Total	411	29,801	369,934	12.4	900.1	17,156	4.6
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	4	2,486	922	0.4	230.5		
10,001 - 20,000 lbs.	7	1,330	735	0.6	105.0		
20,001 - 30,000 lbs.	6	112	727	6.5	121.2		
30,001 - 50,000 lbs.	8	451	4,572	10.1	571.5		
50,001 lbs. and over	—	—	—	—	—		
Total	25	4,379	6,956	1.6	278.2		

TABLE 3. Selected Statistics By Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	19	1,284	15,903	12.4	837.0	1,009	6.3
Animals and animal products	49	5,602	76,994	13.7	1,571.3	2,335	3.0
Mine products	—	—	—	—	—	—	—
Forest products	30	844	11,486	13.6	382.9	459	4.0
Manufactures and miscellaneous	235	15,164	173,358	11.4	737.7	7,891	4.6
N.O.S. general freight	78	6,907	92,193	13.3	1,182.0	5,462	5.9
Total	411	29,801	369,934	12.4	900.1	17,156	4.6
Private intercity							
Commodity classification	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	—	—	—	—	—		
Animals and animal products	—	—	—	—	—		
Mine products	2	175	1,843	10.5	921.5		
Forest products	—	—	—	—	—		
Manufactures and miscellaneous	23	4,204	5,113	1.2	222.3		
N.O.S. general freight	—	—	—	—	—		
Total	25	4,379	6,956	1.6	278.2		

SECTION V. TRAFFIC PERFORMED BY ALBERTA REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled	'000	—	4,303	8,667	1,172
Average yearly mileage per bus		—	53,800	55,900	78,100
Average journey (average distance per passenger)		—	48.2	109.6	114.7
Fuel:					
Total gallons of gasoline consumed	'000	—	525	171	—
Miles per gallon of gasoline		—	6.7	6.0	—
Total gallons of diesel oil consumed	'000	—	114	954	120
Miles per gallon of diesel oil		—	7.0	8.0	9.7
Passengers and passenger miles:					
Total number of passengers carried	'000	—	820	1,445	176
Total number of passenger miles	'000	—	39,525	158,328	20,192
Average number of passengers carried per mile		—	9.2	18.3	17.2
Capacity:					
Total capacity seat miles	'000	—	122,398	323,797	47,619
Percentage of capacity utilized		—	32.3	48.9	42.4
Revenue:					
Total passenger revenue	\$'000	—	1,367	3,927	490
Revenue per mile (total mileage travelled)	¢	—	31.8	45.3	41.8
Revenue per passenger mile	¢	—	3.5	2.5	2.4
Revenue per bus	\$	—	17,100	25,300	32,700
					5,784
					40.9
					2.7
					23,100
					44.2

SECTION VI. TRAFFIC PERFORMED BY ALBERTA REGISTERED BUSES WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled	'000	—	4,303	5,826	105
Average yearly mileage per bus		—	53,800	37,600	7,000
Average journey (average distance per passenger)		—	48.2	73.1	49.7
Fuel:					
Total gallons of gasoline consumed	'000	—	526	189	—
Miles per gallon of gasoline		—	6.7	6.0	—
Total gallons of diesel oil consumed	'000	—	114	590	10
Miles per gallon of diesel oil		—	7.0	8.0	10.1
Passengers and passenger miles:					
Total number of passengers carried	'000	—	820	1,414	40
Total number of passenger miles	'000	—	39,525	103,427	1,989
Average number of passengers carried per mile		—	9.2	17.8	18.9
Capacity:					
Total capacity seat miles	'000	—	122,398	217,556	4,317
Percentage of capacity utilized		—	32.3	47.5	46.1
Revenue:					
Total passenger revenue	\$'000	—	1,367	2,574	46
Revenue per mile (total mileage travelled)	¢	—	31.8	44.2	43.8
Revenue per passenger mile	¢	—	3.5	2.5	2.3
Revenue per bus	\$	—	17,100	16,600	3,100
					3,987
					39.0
					2.8
					15,900

APPENDIX
Sampling Results

Type of operation	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Alberta truck population January 1, 1957 - December 31, 1957							
For hire	126	450	228	1,938	3,918	1,839	8,499
Private:							
Intercity	21,132	4,698	714	1,818	951	348	29,661
Urban	3,744	1,881	480	1,902	1,473	600	10,080
Farm	30,654	16,965	3,066	10,986	1,245	15	62,931
Total	55,656	23,994	4,488	16,644	7,587	2,802	111,171
Total number of trucks selected in samples							
For hire	10	57	41	346	1,362	584	2,400
Private:							
Intercity	1,148	503	115	291	282	101	2,440
Urban	206	192	74	286	443	160	1,361
Farm	1,655	1,787	481	1,674	368	4	5,969
Total	3,019	2,539	711	2,597	2,455	849	12,170
Number of questionnaires returned completed							
For hire	3	22	20	119	456	269	889
Private:							
Intercity	538	228	52	102	136	47	1,103
Urban	98	122	41	143	149	74	627
Farm	850	881	180	531	126	—	2,568
Total	1,489	1,253	293	895	867	390	5,187
Number of sampled trucks reported not in use during survey week							
For hire	2	19	6	111	438	133	709
Private:							
Intercity	265	187	38	118	82	35	705
Urban	48	25	16	82	157	49	377
Farm	448	640	219	906	158	2	2,373
Total	763	851	279	1,217	835	219	4,164
Number of questionnaires returned incomplete and unusable							
For hire	2	10	10	51	219	91	383
Private:							
Intercity	258	67	14	49	43	8	439
Urban	40	33	12	44	80	19	228
Farm	201	147	39	111	30	—	528
Total	501	257	75	255	372	118	1,578
Number of questionnaires not returned (non-respondents)							
For hire	3	6	5	65	249	91	419
Private:							
Intercity	87	41	11	22	21	11	193
Urban	20	12	5	17	57	18	129
Farm	156	119	43	126	54	2	500
Total	266	178	64	230	381	122	1,241

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MOTOR TRANSPORT TRAFFIC PROVINCE OF ALBERTA

1958



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PROVINCE OF ALBERTA

JANUARY 1 — DECEMBER 31, 1958

CHART — 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

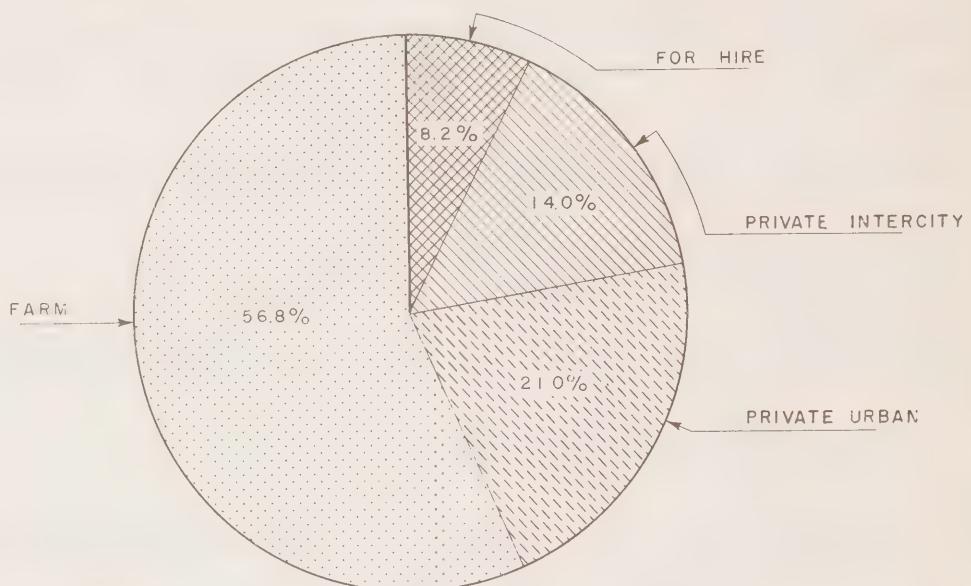
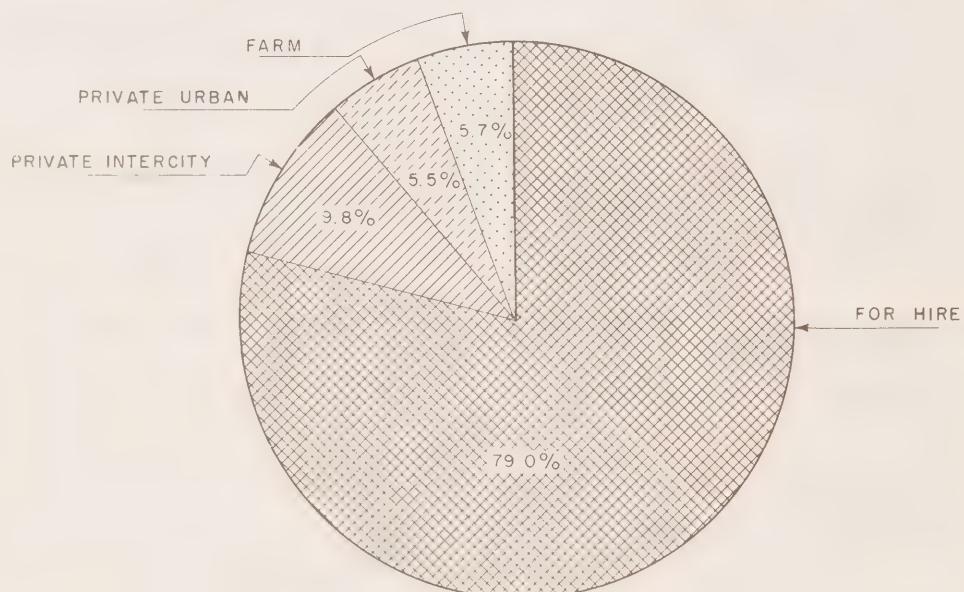


CHART — 2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1958 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 11 per cent of trucks and 51 per cent of intercity buses registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations, the sample was selected in four quarterly segments with approximately one-fourth of the total selected each quarter. Beginning in the second quarter of 1958, each quarterly sample was spread over three survey weeks with one-third of the sample being used for a seven day period, Sunday through Saturday, per month. Previously each quarterly sample was concentrated in one survey week so that the total sample for the year was spread over only four weeks. Statistics compiled for 1958, therefore, have been based on surveys spread over ten weeks. As a result a much better representation of truck traffic has been obtained.

All trucks and buses registered in the province are represented except: (a) those not engaged in transportation services; (b) buses utilized for scheduled urban transit and school buses; (c) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight groups. The four functional categories used are: for-hire, private intercity, private urban and farm. For-hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated predominantly within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "P.S.V." licence. An "E" licence limits truck transportation to commodities specified by the Alberta Highway Traffic Board. A "P.S.V." licence is issued to all other public service vehicles engaged in intercity operations.

Trucks operated privately or for compensation within a five mile radius of the city, town or village at which registered are issued with a "C" licence.

Vehicles used for personal transportation including goods which are the property of the owner or by tradesmen or salesmen for the conveyance of their own equipment or display goods are issued with an "X" licence. Trucks owned by farmers for farm operations are provided with an "F" licence. All other privately operated trucks are issued with a "CV" licence.

In this report vehicles have been classified into the four functional categories as follows:

For-hire — "P.S.V." and "E" licensed vehicles.

Private — "CV" licensed vehicles and "X" intercity licensed vehicles operated predominantly outside urban areas.

Private — "C" licensed vehicles and that urban portion of "X" licensed vehicles operated predominantly within urban areas.

Farm — "F" licensed vehicles.

In the 1957 report all "X" licensed vehicles were included in the private intercity category. Most of these trucks do not operate outside the urban areas, and "X" licensed vehicles have been separated into private urban and private intercity classes according to the area of operation as indicated in the returned questionnaires. Consequently intercity and urban data included in the report do not compare with that compiled in the 1957 Alberta report.¹ However, the resulting operating averages of intercity vehicles have become more comparable with intercity averages for other provinces.

It should also be noted that because all "C" licensed vehicles have been included in the private urban class, the for-hire data are understated and the private urban statistics are overstated by the for-hire operations performed by these "C" licensed trucks.

Further information on the history and the organization of motor transport traffic surveys may be found in the report entitled "Motor Transport Traffic Statistics, National Estimates."

¹ Anyone wishing comparable 1957 data should write to the Transportation and Public Utilities Section, Ottawa.

Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample

results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

Review of Survey Results

Excluding vehicles which do not perform transportation services, the average number of trucks registered in Alberta during the year was 114,544. Of these 9,441 or 8.2 per cent were for-hire carriers; 16,050 or 14.0 per cent were private intercity vehicles; 24,037 or 21.0 per cent were private vehicles operating predominantly within urban areas; and 65,016 or 56.8 per cent were farm trucks.

In the tables presented herein blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not necessarily follow that there are no vehicles in the province belonging to these classifications.

Section 1: Traffic Inside and Outside the Province

Section 1 contains estimates of total traffic performed by all Alberta registered trucks both inside and outside the province.

Although comprising only 8.2 per cent of Alberta's truck population, for-hire vehicles accounted for 79.0 per cent of total net ton miles and 52.8 per cent of total tons of goods carried during 1958. This results from the high average yearly mileage of these trucks, 24,500 as compared with 7,000 miles for all trucks, and from the heavy average load carried (10.2 tons as compared with 5.5 for all trucks). The heavier loads carried by for-hire trucks are to be expected since almost three-quarters of these vehicles have a gross weight of over 10 tons. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline estimate of 6.4 as compared with a ratio of 10.0 for all trucks.

It is estimated that approximately 2 per cent of the total ton miles performed by for-hire trucks inside and outside of Alberta was urban operations. This does not include the urban portion of intercity trips.

Some trucks in Alberta are used essentially for personal transportation. Such vehicles account for about 19 per cent of the total mileage travelled by Alberta registered trucks.

Section 2: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the prov-

ince" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for-hire vehicles accumulated 42.0 per cent and private intercity 5.4 per cent of their total net ton miles outside of Alberta.

Section 3: Intraprovincial Traffic

This section includes statistics of for-hire and private intercity operations originating and terminating entirely inside the boundaries of Alberta.

It is estimated that of the total net ton miles performed by both for-hire and private intercity trucks, manufactured products accounted for 41.5 and 78.7 per cent respectively of the commodities carried.

Section 4: Interprovincial and International Traffic

Estimates indicate that approximately three-fifths of the total tons of goods carried by Alberta registered for-hire trucks in interprovincial and international traffic was transferred to or from British Columbia; and, that almost one-half of the total net ton miles performed and one-third of the revenue earned by for-hire trucks was in interprovincial and international traffic.

Sections 5 and 6: Intercity Bus Traffic

Section 5 provides estimates of intercity bus traffic both inside and outside the province while Section 6 covers traffic within the province only. Almost one-half of the total passenger miles performed by Alberta registered buses was estimated to be outside the boundaries of the province. Similarly, over one-half of total revenue was earned while buses were travelling outside provincial boundaries. This situation occurs because, a large percentage of buses were licensed in other provinces as well and travelled extensively outside the province during the survey weeks.

Appendix — Survey Response

During the year survey questionnaires were sent to the owners or operators of 12,385 trucks. Of this number 5,353 were returned completed and 4,081 were reported not used during the survey week. In addition 1,293 were returned with insufficient information. Non-response totalled 1,658 or 13.4 per cent.

Reliability of Motor Transport Traffic Statistics

(a) Non-sampling variability

A certain amount of variance in motor transport traffic statistics will arise from non-sampling factors including improper reporting by the respondent due to misinterpretation of questions or deliberate mis-statements. Also, the respondent may not keep accurate records of traffic performed. The effect of these factors cannot be measured without a further follow-up and re-enumeration of the statistics reported.

(b) Sampling variability

Estimates of the sampling error have however been calculated for the following class totals (see Appendix 2): (1) mileage travelled (2) weight of

goods carried (3) net ton miles and (4) revenue earned. These calculations have been made using a confidence limit of two standard deviations (i.e. allowing 95 out of 100 chances that the stated range contains the true value). The stability of the data varies according to the type of statistics involved and the number of trucks reporting in each category. Hence statistics of class totals are considered more reliable than those for any particular weight group. Of the various types of data presented, the most stable statistics were "total mileage travelled" while variability seemed greatest for "weight of goods carried". This is understandable when we consider that trucks may travel with little or no load so that there is a naturally wide range of weights carried.

June 11, 1959

SECTION 1. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1-DECEMBER 31, 1958

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	231,430	174,210	157,184	234,314	797,138
Average yearly mileage per truck		24,500	10,900	6,500	3,600	7,000
Average distance each ton was carried		57.6	42.6	8.6	16.1	38.5
Percentage of total mileage travelled empty		33.3	52.5	65.2	69.4	54.4
Fuel:						
Total gallons of gasoline consumed	'000	26,234	15,153	12,866	18,898	73,151
Miles per gallon of gasoline		6.4	11.2	12.2	12.4	10.0
Total gallons of diesel oil consumed	'000	9,503	343	—	—	9,846
Miles per gallon of diesel oil		6.5	6.6	—	—	6.5
Total gallons of other fuel consumed	'000	163	308	—	—	471
Miles per gallon of other fuel		6.8	7.6	—	—	7.3
Weight of goods carried:						
Total tons of goods carried	'000	27,294	4,565	12,813	6,999	51,671
Average weight carried ¹	ton	10.2	2.4	2.0	1.6	5.5
Net ton miles:						
Total net ton miles performed	'000	1,572,082	194,638	109,622	112,797	1,989,139
Average net ton miles per truck		166,500	12,100	4,600	1,700	17,400
Capacity ton miles:						
Total capacity ton miles ²	'000	2,889,058	550,201	348,110	448,054	4,235,423
Average capacity ton miles per truck		306,000	34,300	14,500	6,900	37,000
Percentage of capacity utilized		54.4	35.4	31.5	25.2	47.0
Gross ton miles:						
Total gross ton miles ³	'000	3,192,951	676,815	471,086	620,695	4,961,547
Average gross ton miles per truck		338,200	42,200	19,600	9,500	43,300
Revenue:						
Total revenue	\$'000	87,838				
Revenue per ton mile	¢	5.6				
Revenue per mile (total mileage travelled)	¢	38.0				
Average revenue per truck	\$	9,300				
Average annual population		9,441	16,050	24,037	65,016	114,544

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000lb.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total	
Mileage:								
Total mileage travelled	'000	338,456	108,295	20,604	73,053	113,022	143,708	797,138
Average yearly mileage per truck		5,900	4,400	4,600	4,400	12,700	45,600	7,000
Average distance each ton was carried		19.0	14.3	20.4	16.6	16.6	100.7	38.5
Percentage of total mileage travelled empty		72.7	57.0	41.5	40.5	44.3	26.4	54.4
Fuel:								
Total gallons of gasoline consumed	'000	22,400	8,859	2,131	8,743	15,618	15,400	73,151
Miles per gallon of gasoline		15.1	12.2	9.7	8.3	6.9	5.4	10.0
Total gallons of diesel oil consumed	'000	—	—	—	—	386	9,460	9,846
Miles per gallon of diesel oil		—	—	—	—	8.0	6.4	6.5
Total gallons of other fuel consumed	'000	—	21	—	70	361	19	471
Miles per gallon of other fuel		—	8.2	—	9.4	7.0	5.4	7.3
Weight of goods carried:								
Total tons of goods carried	'000	2,002	2,442	1,231	8,659	23,926	13,411	51,671
Average weight carried ¹	ton	0.4	0.8	2.1	3.3	6.3	12.8	5.5
Net ton miles:								
Total net ton miles performed	'000	37,999	34,999	25,058	143,464	396,882	1,350,737	1,989,139
Average net ton miles per truck		700	1,400	5,500	8,700	44,700	428,800	17,400
Capacity ton miles:								
Total capacity ton miles ²	'000	288,100	159,733	79,085	410,700	918,042	2,379,763	4,235,423
Average capacity ton miles per truck		5,000	6,600	17,500	24,900	103,500	755,500	37,000
Percentage of capacity utilized		13.2	21.9	31.7	34.9	43.2	56.8	47.0
Gross ton miles:								
Total gross ton miles ³	'000	583,373	263,443	97,371	437,246	934,392	2,645,722	4,961,547
Average gross ton miles per truck		10,200	10,800	21,600	26,500	105,300	839,900	43,300
Average annual population		57,151	24,354	4,518	16,500	8,871	3,150	114,544

TABLE 3. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
20,000 lbs. and under	'000 tons	'000	'000	tons	miles	\$'000	¢
1,910	14,316	45,302	3.2	23.7	5,752	12.7	
20,001-30,000 lbs.	17,449	45,919	308,472	6.7	17.7	25,544	8.3
30,001-50,000 lbs.	4,803	28,609	297,986	10.4	62.0	19,162	6.4
50,001 lbs. and over	3,132	65,422	920,322	14.1	293.9	37,380	4.1
Total	27,294	154,266	1,572,082	10.2	57.6	87,838	5.6
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs and under	1,002	50,262	22,990	0.5	23.0		
10,001-20,000 lbs.	1,191	15,520	37,759	2.4	31.7		
20,001-30,000 lbs.	1,232	9,038	42,778	4.7	34.7		
30,001 lbs. and over	1,140	7,866	91,111	11.6	79.9		
Total	4,565	82,686	194,638	2.4	42.6		

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
January 1-December 31, 1958

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	176,171	170,268	157,184	234,314
Average yearly mileage per truck		18,700	10,600	6,500	3,600
Average distance each ton was carried		33.7	40.6	8.6	16.1
Percentage of total mileage travelled empty		39.9	52.2	65.2	69.4
Fuel:					
Total gallons of gasoline consumed	'000	23,354	14,853	12,866	18,898
Miles per gallon of gasoline		6.5	11.2	12.2	12.4
Total gallons of diesel oil consumed	'000	3,350	246	—	—
Miles per gallon of diesel oil		6.6	6.4	—	—
Total gallons of other fuel consumed	'000	163	308	—	—
Miles per gallon of other fuel		6.8	7.6	—	—
Weight of goods carried:					
Total tons of goods carried	'000	27,024	4,533	12,813	6,999
Average weight carried ¹	ton	8.6	2.3	2.0	1.6
Net ton miles:					
Total net ton miles performed	'000	911,752	184,071	109,622	112,797
Average net ton miles per truck		96,600	11,500	4,600	1,700
Capacity ton miles:					
Total capacity ton miles ²	'000	1,927,802	520,310	348,110	448,054
Average capacity ton miles per truck		204,200	32,400	14,500	6,900
Percentage of capacity utilized		47.3	35.4	31.5	25.2
Gross ton miles:					
Total gross ton miles ³	'000	1,995,189	648,507	471,086	620,695
Average gross ton miles per truck		211,300	40,400	19,600	9,500
Revenue:					
Total revenue	\$'000	62,976			
Revenue per ton mile	¢	6.9			
Revenue per mile (total mileage travelled)	¢	35.7			
Average revenue per truck	\$	6,700			
Average annual population		9,441	16,050	24,037	65,016
					114,544

For footnotes see Table 2, page 10.

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total	
Mileage:								
Total mileage travelled	'000	336,789	108,209	20,295	72,472	112,112	88,060	737,937
Average yearly mileage per truck		5,900	4,400	4,500	4,400	12,600	28,000	6,400
Average distance each ton was carried..		19.0	14.3	19.8	16.6	16.4	52.2	25.7
Percentage of total mileage travelled empty		72.6	56.9	41.6	40.0	44.2	35.4	57.5
Fuel:								
Total gallons of gasoline consumed	'000	22,289	8,850	2,091	8,723	15,484	12,534	69,971
Miles per gallon of gasoline		15.1	12.2	9.7	8.2	6.9	5.4	10.2
Total gallons of diesel oil consumed	'000	—	—	—	—	380	3,216	3,596
Miles per gallon of diesel oil		—	—	—	—	7.9	6.4	6.6
Total gallons of other fuel consumed	'000	—	21	—	70	361	19	471
Miles per gallon of other fuel		—	8.2	—	9.4	7.0	5.4	7.3
Weight of goods carried:								
Total tons of goods carried	'000	2,002	2,441	1,231	8,659	23,907	13,129	51,369
Average weight carried ¹	ton	0.4	0.8	2.1	3.3	6.3	12.0	4.2
Net ton miles:								
Total net ton miles performed	'000	37,965	34,982	24,358	143,464	392,777	684,696	1,318,242
Average net ton miles per truck		700	1,400	5,400	8,700	44,300	217,400	11,500
Capacity ton miles:								
Total capacity ton miles ²	'000	286,732	159,714	77,911	408,242	906,993	1,404,684	3,244,276
Average capacity ton miles per truck ...		5,000	6,600	17,200	24,700	102,200	445,900	28,300
Percentage of capacity utilized		13.2	21.9	31.3	35.1	43.3	48.7	40.6
Gross ton miles:								
Total gross ton miles ³	'000	580,660	263,250	95,558	435,050	925,951	1,435,008	3,735,477
Average gross ton miles per truck		10,200	10,800	21,200	26,400	104,400	455,600	32,600
Average annual population		57,151	24,354	4,518	16,500	8,871	3,150	114,544

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS JANUARY 1 - DECEMBER 31, 1958

TABLE 1. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lbs. and under	1,552	13,115	43,476	3.3	28.0	5,140	11.8
20,001-30,000 lbs.	14,646	42,066	274,263	6.5	18.7	23,036	8.4
30,001-50,000 lbs.	3,943	16,480	173,288	10.5	43.9	11,550	6.7
50,001 lbs. and over	2,266	15,776	212,377	13.5	93.7	11,856	5.6
Total	22,407	87,437	703,404	8.0	31.4	51,582	7.3
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	731	33,483	17,465	0.5	23.9		
10,001-20,000 lbs.	884	11,991	28,504	2.4	32.2		
20,001-30,000 lbs.	592	6,221	29,543	4.7	49.9		
30,001 lbs. and over	455	5,677	66,167	11.7	145.4		
Total	2,682	57,372	141,679	2.5	53.2		

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	923	4,029	30,664	7.6	33.2	2,312	7.5
Animals and animal products	720	10,877	48,532	4.5	67.4	4,716	9.7
Mine products	15,540	21,323	191,669	9.0	12.3	14,410	7.5
Forest products	361	3,220	28,168	8.7	77.9	1,877	6.7
Manufactures and miscellaneous	3,168	32,101	291,733	9.1	92.1	18,660	6.4
N.O.S. general freight	1,695	15,887	112,638	7.1	66.5	9,607	8.5
Total	22,407	87,437	703,404	8.0	31.4	51,582	7.3
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	61	414	810	2.0	13.3		
Animals and animal products	85	2,881	3,794	1.3	44.6		
Mine products	466	2,280	13,845	6.1	29.7		
Forest products	62	991	2,083	2.1	33.7		
Manufactures and miscellaneous	1,757	44,673	111,448	2.5	63.4		
N.O.S. general freight	231	6,133	9,699	1.6	42.0		
Total	2,662	57,372	141,679	2.5	53.2		

SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1958

TABLE 1. Origin and Destination

Origin or destination	For hire			Private intercity			Total		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	—	—	—						
Prince Edward Island	—	—	—						
Nova Scotia	—	—	—						
New Brunswick	—	—	—						
Quebec	36	38	74						
Ontario	82	72	154	1	1	1	1	1	1
Manitoba	33	46	79						
Saskatchewan	63	27	90						
British Columbia	153	145	298						
Yukon and North West Territories	23	3	26						
United States	5	11	16						
Total	395	342	737						

¹ Reliable estimates not available.

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	17	487	5,113	10.5	309.8	356	7.0
Animals and animal products	109	14,216	196,815	13.8	1,799.0	6,139	3.1
Mine products	—	—	—	—	—	—	—
Forest products	47	721	11,337	15.7	239.6	519	4.6
Manufactures and miscellaneous	375	23,628	315,600	13.4	841.3	12,605	4.0
N.O.S. general freight	189	16,942	235,388	13.9	1,247.1	9,442	4.0
Total	737	55,994	764,253	13.6	1,036.8	29,061	3.8
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	—	—	—	—	—		
Animals and animal products	—	—	—	—	—		
Mine products	—	—	—	—	—		
Forest products	1	1	1	1	1		
Manufactures and miscellaneous	—	—	—	—	—		
N.O.S. general freight	—	—	—	—	—		
Total							

¹ Reliable estimates not available.

SECTION V. TRAFFIC PERFORMED BY ALBERTA REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE JANUARY 1 - DECEMBER 31, 1958

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled	'000	—	1,764	9,526	4,939
Average yearly mileage per bus	—	—	33,900	57,000	96,900
Average journey (average distance per passenger)	—	—	51.9	93.8	94.8
Fuel:					
Total gallons of gasoline consumed	'000	—	156	409	63
Miles per gallon of gasoline	—	—	6.2	5.6	8.1
Total gallons of diesel oil consumed	'000	—	105	920	528
Miles per gallon of diesel oil	—	—	7.7	7.9	8.4
Total gallons of other fuel consumed	'000	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—
Passengers and passenger miles:					
Total number of passengers carried	'000	—	268	1,494	956
Total number of passenger miles	'000	—	13,909	140,033	90,620
Average number of passengers carried per mile	—	—	7.9	14.7	18.3
Capacity:					
Total capacity seat miles	'000	—	48,303	345,665	211,207
Percentage of capacity utilized	—	—	28.8	40.5	42.9
Revenue:					
Total passenger revenue	\$'000	—	467	4,606	2,180
Revenue per mile (total mileage travelled)	¢	—	26.5	48.4	44.1
Revenue per passenger mile	¢	—	3.4	3.3	2.4
Revenue per bus	\$	—	9,000	27,600	42,700
					26,900

SECTION VI. TRAFFIC PERFORMED BY ALBERTA REGISTERED BUSES WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1958

TABLE 1. By Passenger Seating Capacity

		0-19	20-29	30-39	40 and over	Total
Mileage:						
Total mileage travelled	'000	—	1,742	3,765	2,890	8,397
Average yearly mileage per bus		—	33,500	22,500	56,700	31,100
Average journey (average distance per passenger)		—	52.3	68.1	72.1	67.3
Fuel:						
Total gallons of gasoline consumed	'000	—	152	235	33	420
Miles per gallon of gasoline		—	6.2	5.7	7.8	6.0
Total gallons of diesel oil consumed	'000	—	105	293	312	710
Miles per gallon of diesel oil		—	7.7	8.3	8.4	8.3
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Passengers and passenger miles:						
Total number of passengers carried	'000	—	263	844	701	1,808
Total number of passenger miles	'000	—	13,750	57,458	50,530	121,738
Average number of passengers carried per mile		—	7.9	15.3	17.5	14.5
Capacity:						
Total capacity seat miles	'000	—	47,856	135,286	126,981	310,123
Percentage of capacity utilized		—	28.7	42.5	39.8	39.3
Revenue:						
Total passenger revenue	\$'000	—	455	1,429	1,306	3,190
Revenue per mile (total mileage travelled)	¢	—	26.1	38.0	45.2	38.0
Revenue per passenger mile	¢	—	3.3	2.5	2.6	2.6
Revenue per bus	\$	—	8,700	8,600	25,600	11,800

Appendix 1

Type of operation	A. Population						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Alberta truck population January 1 - December 31, 1958							
For hire	144	459	210	1,638	4,803	2,187	9,441
Private:							
Intercity	9,054	3,471	661	1,246	1,176	442	16,050
Urban	16,057	3,360	683	2,378	1,053	506	24,037
Farm	31,896	17,064	2,964	11,238	1,839	15	65,016
Total	57,151	24,354	4,518	16,500	8,871	3,150	114,544
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire	2,447	977	681		789		
Private:							
Intercity	1,589	763	440		386		
Urban	2,157	1,047	582		528		
Farm	6,192	2,566	2,378		1,248		
Total	12,385	5,353	4,081		2,951		

Appendix 2. Reliability of Motor Transport Traffic Statistics

	Number of trucks reporting (1)	Survey estimates '000 (2)	Sampling variability (two standard deviations)		Range (Col. 2 plus and minus col. 3)	
			Size '000 (3)	Per cent of col. 2 (4)	Lower limit '000 (5)	Upper limit '000 (6)
			A. Traffic performed within the province ¹			
Total mileage travelled						
For hire	967	176,171	8,104	4.6	168,067	184,275
Private:						
Intercity	754	170,268	11,919	7.0	158,349	182,187
Urban	1,047	157,184	9,431	6.0	147,753	166,615
Farm	2,566	234,314	10,778	4.6	223,536	245,092
Total	5,334	737,937	20,662	2.8	717,275	758,599
Weight of goods						
For hire	921	27,024	2,919	10.8	24,105	29,943
Private:						
Intercity	573	4,533	1,043	23.0	3,490	5,576
Urban	657	12,813	1,435	11.2	11,378	14,248
Farm	1,859	6,999	672	9.6	6,327	7,671
Total	4,010	51,369	3,596	7.0	47,773	54,965
Net ton miles						
For hire	921	911,752	51,058	5.6	860,694	962,810
Private:						
Intercity	567	184,071	28,715	15.6	155,356	212,786
Urban	655	109,622	11,839	10.8	97,783	121,461
Farm	1,791	112,797	10,152	9.0	102,645	122,949
Total	3,934	1,318,242	58,003	4.4	1,260,239	1,376,245
Revenue earned						
For hire	921	\$ 62,976	\$ 3,149	5.0	\$ 59,827	\$ 66,125
B. Interprovincial and international traffic						
Weight of goods						
For hire	124	tons 737	tons 90	12.2	tons 647	tons 827
Net ton miles						
For hire	124	net ton miles 764,253	net ton miles 81,011	10.6	net ton miles 683,242	net ton miles 845,264

¹ Estimates for traffic "inside and outside the province" are considered to be more reliable while the estimates for "intraprovincial" traffic should be equally reliable.

Note. The chances are 95 out of 100 that the range (sample estimate \pm sampling variability) contains the true value. Consider "total mileage travelled" by for-hire trucks. It can be assumed that the computed figure, 176,171,000 miles, will not be more than 8,104,000 miles (plus or minus 4.6 per cent of 176,171,000) away from the "true" value in 95 out of 100 cases. In other words, the chances are 95 out of 100 that the true value will fall within a range of 168,067,000 to 184,275,000.

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MOTOR TRANSPORT TRAFFIC

PROVINCE OF ALBERTA

1959



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PROVINCE OF ALBERTA
JANUARY 1-DECEMBER 31, 1959

CHART-1 TRUCK REGISTRATIONS BY TYPE OF OPERATION

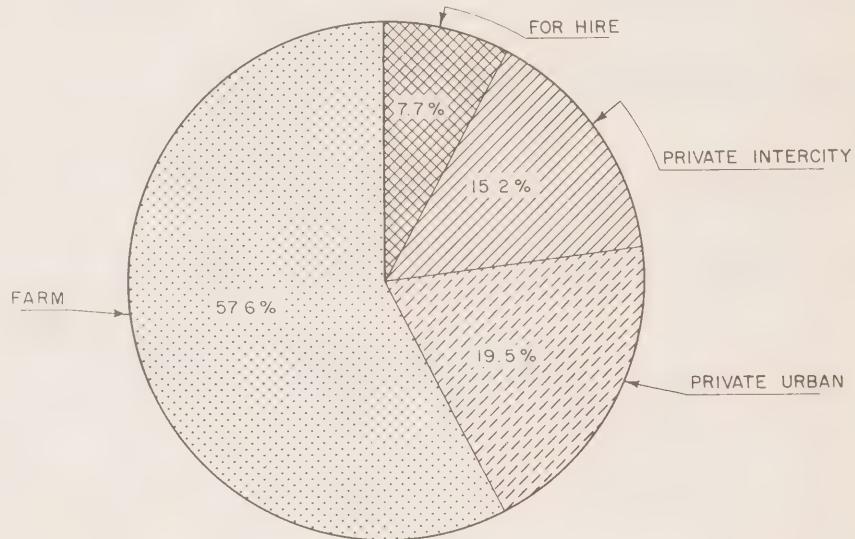
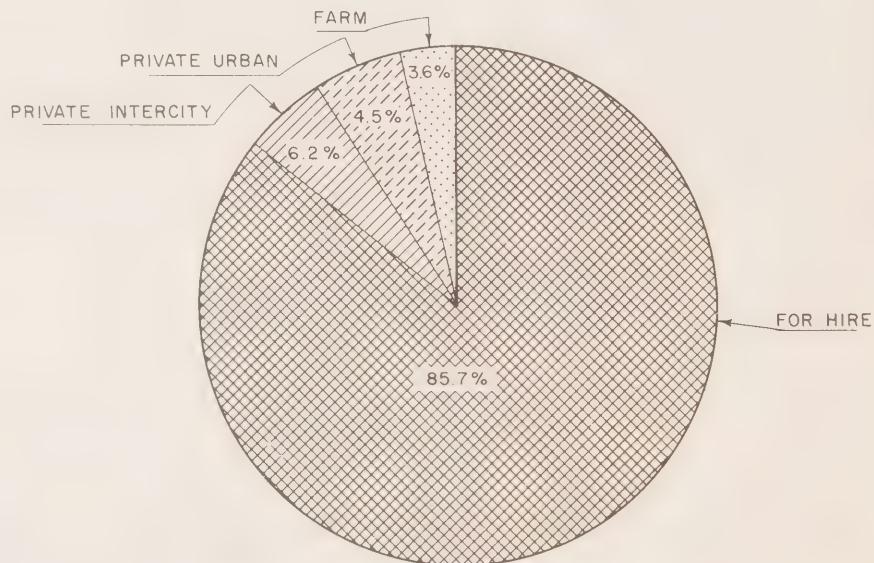


CHART-2 NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1959 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Prior to 1959 a sample survey of intercity buses was conducted in conjunction with the truck traffic survey. However, it was not possible to survey buses in all provinces and, as some traffic data are also collected for the annual publication "Passenger Bus Statistics", catalogue no. 53-215, it was decided to discontinue the sample survey of buses for the present.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "PSV" licence. An "E" licence limits a truck to the transportation of the commodities specified by the Alberta Highway Traffic Board. A "PSV" licence is issued to all other public service vehicles engaged in intercity operations. Trucks operated for compensation within a five mile radius of the city, town or village of registration are issued with a "C" licence.

Trucks owned by farmers and operated solely in connection with their farm are issued with an "F" licence. Other privately owned trucks are licensed with either a "CV" or a restricted "X" licence.

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "PSV" and "E" licensed vehicles
Private intercity	— "CV" licensed vehicles and "X" licensed vehicles operating beyond urban areas
Private urban	— "C" licensed vehicles and that portion of "X" licensed vehicles operating only in urban areas
Farm	— "F" licensed vehicles

It should be noted that because all "C" licensed vehicles have been included in the private urban class, the for hire data are understated and the private urban statistics overstated by the for hire operations of these "C" licensed trucks.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 and 1958.

Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

To improve the accuracy of the provincial estimates, it was decided to use, for 1959, the peak registration population in calculating the blow-up factor rather than the population as at four different periods during the year.

Unfortunately time has not permitted calculations of the reliability of these estimates similar to those published in the 1958 report. It should also be noted that the section dealing exclusively with trips originating and terminating within the province has been omitted from this report for the purposes of simplification.

Review of Survey Results

The estimated population of trucks performing transportation services in Alberta during the year rose 1.6 per cent to 116,340 from 114,544 in 1958. Of these 9,000 or 7.7 per cent were for hire trucks; 17,661 or 15.2 per cent were private intercity vehicles; 22,707 or 19.5 per cent were private vehicles operating wholly within urban areas; and 66,972 or 57.6 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type

of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Alberta registered trucks.

Although comprising only 7.7 per cent of Alberta's truck population, for hire vehicles accounted for 85.7 per cent of the total net ton miles and 45.3 per cent of the total tons of goods carried during 1959. This results from the high average yearly mileage of these trucks, 28,100 miles as compared with 6,300 miles for all trucks, and from the heavy average load carried of 11.2 tons compared to 6.8 tons for all trucks. Since over three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried

by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.5 compared with 9.9 for all trucks.

It is estimated that less than 1 per cent of the total net ton miles performed by Alberta registered for hire trucks was in urban operations.

Some trucks in Alberta under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 15 per cent of the total mileage travelled by Alberta registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely

outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 50.0 per cent and private intercity 11.3 per cent of their total net ton miles outside Alberta.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately three fifths of the total net ton miles performed and two fifths of the revenue earned by

these vehicles. Two fifths of the total tons of goods carried in this type of traffic by Alberta registered for hire trucks was transported to or from British Columbia and almost one quarter was carried to or from Ontario.

Appendix

During the year survey questionnaires were sent to the owners or operators of 11,736 trucks. Of this number 3,994 were returned completed and

3,893 trucks were reported not used during the survey week. The remaining 3,849 were either returned incomplete and unusable or not returned at all.

SECTION 1. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1959

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	253,153	171,723	116,616	730,653	
Average yearly mileage per truck		28,100	9,700	5,100	6,300	
Average distance each ton was carried		103.1	42.8	7.2	54.5	
Percentage of total mileage travelled empty		28.3	64.7	59.3	52.5	
Fuel:						
Total gallons of gasoline consumed	'000	22,566	14,235	10,751	62,731	
Miles per gallon of gasoline		6.5	11.7	10.9	9.9	
Total gallons of diesel oil consumed	'000	17,352	543	—	17,895	
Miles per gallon of diesel oil		6.1	5.9	—	6.1	
Total gallons of other fuel consumed	'000	154	370	—	524	
Miles per gallon of other fuel		6.9	6.1	—	6.4	
Weight of goods carried:						
Total tons of goods carried	'000	19,666	3,423	14,668	43,395	
Average weight carried ¹	ton	11.2	2.4	2.2	6.8	
Net ton miles:						
Total net ton miles performed	'000	2,028,084	146,381	106,018	2,366,353	
Average net ton miles per truck		225,300	8,300	4,700	20,300	
Capacity ton miles:						
Total capacity ton miles ²	'000	3,245,053	469,390	321,045	4,384,931	
Average capacity ton miles per truck		360,600	26,600	14,100	37,700	
Percentage of capacity utilized		62.5	31.2	33.0	54.0	
Gross ton miles:						
Total gross ton miles ³	'000	3,762,333	621,399	428,389	5,305,162	
Average gross ton miles per truck		418,000	35,200	18,900	45,600	
Revenue:						
Total revenue	\$'000	96,845	—	—	—	
Revenue per ton mile	¢	4.8	—	—	—	
Revenue per mile (total mileage travelled)	¢	38.3	—	—	—	
Average revenue per truck	\$	10,800	—	—	—	
Estimated annual population		9,000	17,661	22,707	66,972	116,340

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0 - 2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5 - 7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	279,172	96,027	19,507	56,574	74,938	204,435
Average yearly mileage per truck		4,800	3,800	4,100	3,600	9,600	42,800
Average distance each ton was carried		17.5	14.4	16.2	13.8	15.8	113.9
Percentage of total mileage travelled empty		74.9	63.3	41.4	41.2	40.4	25.6
Fuel:							
Total gallons of gasoline consumed'	'000	18,802	7,908	2,040	7,056	10,289	16,636
Miles per gallon of gasoline		14.8	12.1	9.6	8.0	7.0	5.7
Total gallons of diesel oil consumed	'000	—	—	—	—	—	17,895
Miles per gallon of diesel oil		—	—	—	—	—	6.1
Total gallons of other fuel consumed	'000	—	—	—	—	378	146
Miles per gallon of other fuel		—	—	—	—	6.5	5.8
Weight of goods carried:							
Total tons of goods carried	'000	1,162	2,006	1,054	7,218	14,662	17,293
Average weight carried ¹	ton	0.3	0.8	1.5	3.0	5.2	12.9
Net ton miles:							
Total net ton miles performed	'000	20,377	28,823	17,056	99,813	231,285	1,968,999
Average net ton miles per truck		400	1,100	3,600	6,300	29,700	411,800
Capacity ton miles:							
Total capacity ton miles ²	'000	243,077	131,777	70,078	307,574	579,733	3,052,692
Average capacity ton miles per truck		4,200	5,200	14,800	19,400	74,400	638,500
Percentage of capacity utilized		8.4	21.9	24.3	32.5	39.9	64.5
Gross ton miles:							
Total gross ton miles ³	'000	486,324	229,798	85,467	329,497	592,321	3,581,755
Average gross ton miles per truck		8,400	9,000	18,100	20,800	76,000	749,200
Estimated annual population		57,769	25,396	4,733	15,872	7,789	4,781
See footnotes at end of Table 5, page 9.							

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	1,079	12,454	26,076	2.1	24.2	5,527	21.2
20,001-30,000 lb.	8,308	29,684	162,410	5.5	19.5	15,014	9.2
30,001-50,000 lb.	5,742	36,428	346,963	9.5	60.4	21,734	6.3
50,001 lb. and over	4,537	102,933	1,492,635	14.5	329.0	54,570	3.7
Totals	19,666	181,499	2,028,084	11.2	103.1	96,845	4.8
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	383	33,228	9,526	0.3	24.9		
10,001-20,000 lb.	755	11,379	21,174	1.9	28.0		
20,001-30,000 lb.	1,157	7,572	32,221	4.3	27.9		
30,001 lb. and over	1,128	8,363	83,460	10.0	73.9		
Totals	3,423	60,542	146,381	2.4	42.8		

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1-DECEMBER 31, 1959

TABLE 4. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled.....	'000	169,638	163,569	116,616	189,161
Average yearly mileage per truck	18,800	9,300	5,100	2,800	5,500
Average distance each ton was carried	52.1	38.2	7.2	15.2	31.0
Percentage of total mileage travelled empty	36.3	68.3	59.3	69.7	58.6
Fuel:					
Total gallons of gasoline consumed	'000	19,422	13,635	10,751	15,179
Miles per gallon of gasoline.....		6.6	11.7	10.9	12.5
Total gallons of diesel oil consumed	'000	6,802	354	—	—
Miles per gallon of diesel oil.....		6.0	5.9	—	—
Total gallons of other fuel consumed	'000	153	362	—	—
Miles per gallon of other fuel.....		6.9	6.1	—	—
Weight of goods carried:					
Total tons of goods carried	'000 ton	19,463	3,400	14,668	5,638
Average weight carried ¹		9.4	2.5	2.2	1.5
Net ton miles:					
Total net ton miles performed	'000	1,014,601	129,886	106,018	85,870
Average net ton miles per truck.....		112,700	7,400	4,700	1,300
Capacity ton miles:					
Total capacity ton miles ²	'000	2,044,154	429,387	321,045	349,443
Average capacity ton miles per truck		227,100	24,300	14,100	5,200
Percentage of capacity utilized		49.6	30.2	33.0	24.6
Gross ton miles:					
Total gross ton miles ¹	'000	2,379,283	572,014	428,389	493,041
Average gross ton miles per truck		264,400	32,400	18,900	7,400
Revenue:					
Total revenue	\$'000	64,586	—	—	—
Revenue per ton mile	¢	6.4	—	—	—
Revenue per mile (total mileage travelled)	¢	38.1	—	—	—
Average revenue per truck	\$	7,200	—	—	—
Estimated annual population		9,000	17,661	22,707	66,972
					116,340

See footnotes at end of Table 5, page 9.

TABLE 5. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 ¹ lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
Mileage:								
Total mileage travelled	'000	274,844	95,774	18,828	55,677	73,602	120,259	638,984
Average yearly mileage per truck		4,800	3,800	4,000	3,500	9,400	25,200	5,500
Average distance each ton was carried		16.4	14.4	15.7	13.7	15.5	55.3	31.0
Percentage of total mileage travelled empty		76.7	63.2	41.4	41.7	40.2	34.7	58.6
Fuel:								
Total gallons of gasoline consumed	'000	18,534	7,889	1,971	6,951	10,087	13,555	58,987
Miles per gallon of gasoline		14.8	12.1	9.6	8.0	7.1	5.6	10.0
Total gallons of diesel oil consumed	'000	—	—	—	—	—	7,156	7,156
Miles per gallon of diesel oil		—	—	—	—	—	6.0	6.0
Total gallons of other fuel consumed	'000	—	—	—	—	371	144	515
Miles per gallon of other fuel		—	—	—	—	6.5	5.8	6.3
Weight of goods carried:								
Total tons of goods carried	'000	1,160	2,006	1,049	7,211	14,653	17,090	43,169
Average weight carried ¹	ton	0.3	0.8	1.5	3.0	5.2	12.1	5.1
Net ton miles:								
Total net ton miles performed	'000	19,024	28,823	16,495	98,862	227,654	945,517	1,336,375
Average net ton miles per truck		300	1,100	3,500	6,200	29,200	197,800	11,500
Capacity ton miles:								
Total capacity ton miles ²	'000	239,679	131,447	68,075	303,526	569,684	1,831,618	3,144,029
Average capacity ton miles per truck		4,100	5,200	14,400	19,100	73,100	383,100	27,000
Percentage of capacity utilized		7.9	21.9	24.2	32.6	40.0	51.6	42.5
Gross ton miles:								
Total gross ton miles ³	'000	479,135	229,273	82,693	325,129	582,298	2,174,199	3,872,727
Average gross ton miles per truck		8,300	9,000	17,500	20,500	74,800	454,800	33,300
Estimated annual population		57,769	25,396	4,733	15,872	7,789	4,781	116,340

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS JANUARY 1 - DECEMBER 31, 1959

TABLE 6. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity ¹			Total ¹		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—
Quebec	55	53	108	—	—	—	—	—	—
Ontario	165	101	266	—	—	—	—	—	—
Manitoba	42	34	76	—	—	—	—	—	—
Saskatchewan	68	73	141	—	—	—	—	—	—
British Columbia	173	263	436	—	—	—	—	—	—
Yukon and Northwest Territories	2	48	50	—	—	—	—	—	—
United States	6	14	20	—	—	—	—	—	—
Totals	511	586	1,097	—	—	—	—	—	—

¹ Reliable estimates not available.

TABLE 7. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	20	1,008	14,649	14.5	727.1	300	2.1
Animals and animal products	81	11,740	153,729	13.1	1,898.3	4,004	2.6
Mine products ¹	—	—	—	—	—	—	—
Forest products	40	899	12,203	13.6	307.0	626	5.1
Manufactures and miscellaneous	629	42,797	556,666	13.0	885.2	21,511	3.9
N.C.S. general freight	327	32,330	484,614	15.0	1,481.2	13,062	2.7
Totals	1,097	88,774	1,221,861	13.8	1,113.9	39,503	3.2
Private intercity ¹							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products							
Animals and animal products							
Mine products							
Forest products							
Manufactures and miscellaneous							
N.C.S. general freight							
Totals							

¹ Reliable estimates not available.

Appendix

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Alberta truck population in 1959							
For hire	395	380	227	939	3,526	3,533	9,000
Private:							
Intercity	10,178	3,856	729	1,446	948	504	17,661
Urban	14,341	3,583	724	1,911	1,420	728	22,707
Farm	32,855	17,577	3,053	11,576	1,895	16	66,972
Totals	57,769	25,396	4,733	15,872	7,789	4,781	116,340
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire	3,877	1,334	1,093				1,450
Private:							
Intercity	1,717	736	558				423
Urban	2,363	886	684				793
Farm	3,779	1,038	1,558				1,183
Totals	11,736	3,994	3,893				3,849

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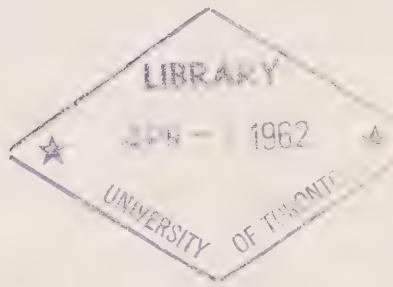
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MOTOR TRANSPORT TRAFFIC ~~Statistics~~
PROVINCE OF ALBERTA

1960



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PROVINCE OF ALBERTA
JANUARY 1-DECEMBER 31, 1960

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

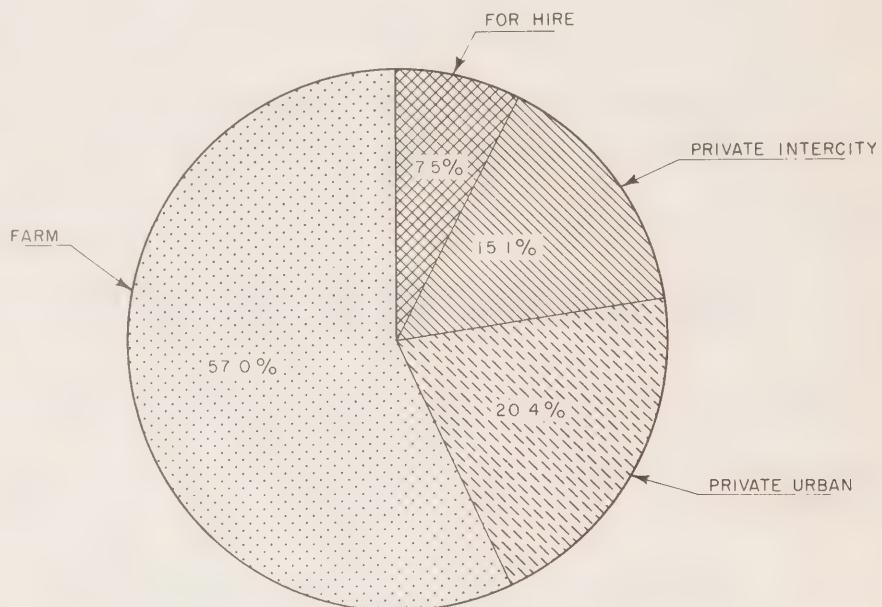
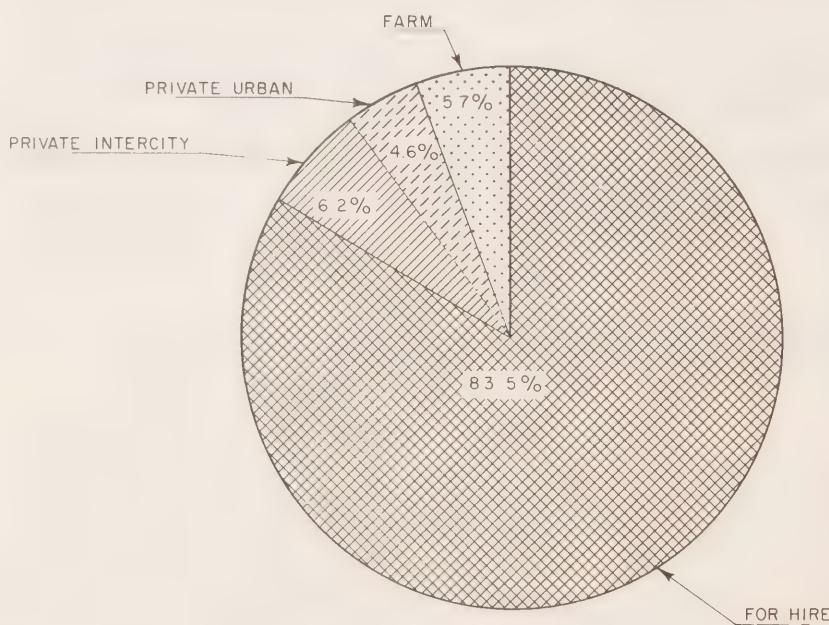


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1960 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Prior to 1959 a sample survey of intercity buses was conducted in conjunction with the truck traffic survey. However, it was not possible to survey buses in all provinces and, as some traffic data are also collected for the annual publication "Passenger Bus Statistics", catalogue no. 53-215, it was decided to discontinue the sample survey of buses for the present.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "PSV" licence. An "E" licence limits a truck to the transportation of the commodities specified by the Alberta Highway Traffic Board. A "PSV" licence is issued to all other public service vehicles engaged in intercity operations. Trucks operated for compensation within a five mile radius of the city, town or village of registration are issued with a "C" licence.

Trucks owned by farmers and operated solely in connection with their farm are issued with an "F" licence. Other privately owned trucks are licensed with either a "CV" or a restricted "X" licence.

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "PSV" and "E" licensed vehicles
Private intercity	— "CV" licensed vehicles and "X" licensed vehicles operating beyond urban areas
Private urban	— "C" licensed vehicles and that portion of "X" licensed vehicles operating only in urban areas
Farm	— "F" licensed vehicles

It should be noted that because all "C" licensed vehicles have been included in the private urban class, the for hire data are understated and the private urban statistics overstated by the for hire operations of these "C" licensed trucks.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957, 1958 and 1959.

Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

Using this method it was found that in some provinces the truck population varied greatly from quarter to quarter. In many cases these changes were not due to an increase or decrease in the

actual truck population but were merely the result of the sample being chosen from an incomplete set of registration files.

To improve the accuracy of the provincial estimates the sample results, since 1959, have been blown up to represent the characteristics of a constant average population throughout the year rather than the population as at four different periods during the year. For this purpose the peak quarterly registration population of the preceding year is deemed to be the average population for the current year. The breakdown of the average population into classes and gross vehicle weight groups is based upon the distribution reported in the whole of the previous year.

Review of Survey Results

The estimated population of trucks performing transportation services in Alberta during the year rose 7.0 per cent to 124,500 from 116,340 in 1959. Of these 9,400 or 7.5 per cent were for hire trucks; 18,760 or 15.1 per cent were private intercity vehicles; 25,340 or 20.4 per cent were private vehicles operating wholly within urban areas; and 71,000 or 57.0 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Alberta registered trucks.

A new table has been added to this section which summarizes for the year the quarterly commodity tables included in the quarterly report "Motor Transport Traffic, National Estimates", catalogue no. 53-004.

Although comprising only 7.5 per cent of Alberta's truck population, for hire vehicles accounted for 83.5 per cent of the total net ton miles and 43.6 per cent of the total tons of goods carried during 1960. This results from the high average yearly mileage of these trucks, 27,200 miles as compared with 6,500 miles for all trucks, and from the heavy average load carried of 11.3 tons compared to 6.5 tons for all trucks. Since over three quarters of all for hire vehicles have a gross

vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.1 compared with 9.8 for all trucks.

It is estimated that urban operations accounted for 1.4 per cent of the total net ton miles performed by Alberta registered for hire trucks and 13.3 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Alberta under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 11 per cent of the total mileage travelled by Alberta registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 47.9 per cent and private intercity 10.1 per cent of their total net ton miles outside Alberta.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately three fifths of the total net ton miles performed and two fifths of the revenue earned by these vehicles. Almost two fifths of the total tons of goods carried in this type of traffic by Alberta registered for hire trucks was transported to or from British Columbia and approximately one quarter was carried to or from Ontario.

Appendix

During the year survey questionnaires were sent to the owners or operators of 11,924 trucks. Of this number 4,037 were returned completed and 3,812 trucks were reported not used during the

survey week. The remaining 4,075 were either returned incomplete and unusable or not returned at all.

SECTION 1. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1-DECEMBER 31, 1960

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	255,362	170,930	126,453	255,716
Average yearly mileage per truck		27,200	9,100	5,000	3,600
Average distance each ton was carried		96.2	36.1	7.8	15.8
Percentage of total mileage travelled empty		27.9	67.1	58.8	63.7
Fuel:					
Total gallons of gasoline consumed	'000	24,003	14,792	11,849	20,206
Miles per gallon of gasoline		6.1	11.2	10.7	12.7
Total gallons of diesel oil consumed	'000	17,942	444	—	—
Miles per gallon of diesel oil		5.9	5.8	—	—
Total gallons of other fuel consumed	'000	238	381	—	—
Miles per gallon of other fuel		6.5	6.4	—	—
Weight of goods carried:					
Total tons of goods carried	'000	21,683	4,253	14,753	9,063
Average weight carried ¹	ton	11.3	2.7	2.2	1.5
Net ton miles:					
Total net ton miles performed	'000	2,085,482	153,605	115,605	142,970
Average net ton miles per truck		221,900	8,200	4,600	2,000
Capacity ton miles:					
Total capacity ton miles ²	'000	3,374,817	487,621	325,212	469,407
Average capacity ton miles per truck		359,000	26,000	12,800	6,600
Percentage of capacity utilized		61.8	31.5	35.5	30.5
Gross ton miles:					
Total gross ton miles ³	'000	4,680,669	647,996	439,365	692,342
Average gross ton miles per truck		497,900	34,500	17,300	9,800
Revenue:					
Total revenue	\$'000	97,812	—	—	—
Revenue per ton mile	¢	4.7	—	—	—
Revenue per mile (total mileage travelled)	¢	38.3	—	—	—
Average revenue per truck	\$	10,400	—	—	—
Estimated annual population		9,400	18,760	25,340	71,000
					124,500

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	315,519	119,818	25,638	61,144	83,361	202,981
Average yearly mileage per truck		5,100	4,400	4,900	3,700	9,800	39,900
Average distance each ton was carried		15.7	13.9	18.9	15.5	15.2	110.1
Percentage of total mileage travelled empty		73.0	60.4	36.6	43.6	41.9	24.4
Fuel:							
Total gallons of gasoline consumed	'000	20,987	10,170	2,760	7,473	11,482	17,978
Miles per gallon of gasoline		15.0	11.8	9.3	8.2	7.0	5.2
Total gallons of diesel oil consumed	'000	—	—	—	—	—	18,386
Miles per gallon of diesel oil		—	—	—	—	—	5.9
Total gallons of other fuel consumed	'000	—	—	—	—	427	192
Miles per gallon of other fuel		—	—	—	—	6.6	6.1
Weight of goods carried:							
Total tons of goods carried	'000	1,847	2,781	1,455	7,880	17,490	18,299
Average weight carried ¹	ton	0.3	0.8	1.7	3.5	5.5	13.1
Net ton miles:							
Total net ton miles performed	'000	29,024	38,531	27,466	122,263	265,638	2,014,740
Average net ton miles per truck		500	1,400	5,300	7,400	31,100	396,500
Capacity ton miles:							
Total capacity ton miles ²	'000	254,120	153,393	90,018	340,509	646,915	3,172,102
Average capacity ton miles per truck		4,100	5,600	17,200	20,700	75,700	624,300
Percentage of capacity utilized		11.4	25.1	30.5	35.9	41.1	63.5
Gross ton miles:							
Total gross ton miles ³	'000	530,602	284,777	118,736	372,646	669,712	4,483,899
Average gross ton miles per truck		8,600	10,400	22,700	22,700	78,300	882,500
Estimated annual population		61,962	27,263	5,232	16,414	8,548	5,081
							124,500

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
20,000 lb. and under	797	10,978	23,587	2.1	29.6	4,869	20.6
20,001-30,000 lb.	9,688	31,222	176,432	5.7	18.2	17,965	10.2
30,001-50,000 lb.	6,450	35,265	339,817	9.6	52.7	23,474	6.9
50,001 lb. and over	4,748	106,693	1,545,646	14.5	325.6	51,504	3.3
Totals	21,683	184,158	2,085,482	11.3	96.2	97,812	4.7

	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles			
10,000 lb. and under	447	28,977	10,978	0.4			24.5
10,001-20,000 lb.	864	11,529	21,093	1.8			24.4
20,001-30,000 lb.	1,096	8,328	35,686	4.3			32.6
30,001 lb. and over	1,846	7,426	85,848	11.6			46.5
Totals	4,253	56,260	153,605	2.7			36.1

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
Agricultural products	485	3,715	47,362	12.7	97.6	1,938	4.1
Animals and animal products	956	34,720	364,187	10.5	381.1	13,579	3.7
Mine products	13,379	16,400	166,536	10.2	12.4	11,376	6.8
Forest products	514	5,127	50,978	9.9	99.2	2,952	5.8
Manufactures and miscellaneous	4,927	77,181	881,368	11.4	178.9	45,061	5.1
N.O.S. general freight	1,422	47,015	575,051	12.2	404.4	22,906	4.0
Totals	21,683	184,158	2,085,482	11.3	96.2	97,812	4.7

	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles			
Agricultural products	112	423	2,438	5.8			21.8
Animals and animal products	90	4,731	2,833	0.6			31.6
Mine products	593	736	7,253	9.9			12.2
Forest products	95	614	5,981	9.7			62.9
Manufactures and miscellaneous	3,218	45,138	126,965	2.8			39.5
N.O.S. general freight	145	4,618	8,135	1.8			55.9
Totals	4,253	56,260	153,605	2.7			36.1

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1-DECEMBER 31, 1960

TABLE 5. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	166,685	166,700	126,453	255,716	715,554
Average yearly mileage per truck		17,700	8,900	5,000	3,600	5,700
Average distance each ton was carried		47.5	33.3	7.8	15.8	28.5
Percentage of total mileage travelled empty		37.4	67.7	58.8	63.7	57.6
Fuel:						
Total gallons of gasoline consumed	'000	20,035	14,290	11,849	20,206	66,380
Miles per gallon of gasoline		6.3	11.4	10.7	12.7	10.1
Total gallons of diesel oil consumed	'000	6,682	334	—	—	7,016
Miles per gallon of diesel oil		6.0	5.8	—	—	5.9
Total gallons of other fuel consumed	'000	172	381	—	—	553
Miles per gallon of other fuel		7.1	6.4	—	—	6.6
Weight of goods carried:						
Total tons of goods carried	'000	21,028	4,149	14,753	9,063	48,993
Average weight carried ¹	ton	9.6	2.6	2.2	1.5	4.6
Net ton miles:						
Total net ton miles performed	'000	998,528	138,043	115,605	142,970	1,395,146
Average net ton miles per truck		106,200	7,400	4,600	2,000	11,200
Capacity ton miles:						
Total capacity ton miles ²	'000	1,946,487	453,346	325,212	469,407	3,194,452
Average capacity ton miles per truck		207,100	24,200	12,800	6,600	25,700
Percentage of capacity utilized		51.3	30.4	35.5	30.5	43.7
Gross ton miles:						
Total gross ton miles ³	'000	2,368,325	607,008	439,365	692,342	4,107,040
Average gross ton miles per truck		251,900	32,400	17,300	9,800	33,000
Revenue:						
Total revenue	\$'000	63,603	—	—	—	—
Revenue per ton mile	¢	6.4	—	—	—	—
Revenue per mile (total mileage travelled)	¢	38.2	—	—	—	—
Average revenue per truck	\$	6,800	—	—	—	—
Estimated annual population		9,400	18,760	25,340	71,000	124,500

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
Mileage:								
Total mileage travelled	'000	315,440	118,949	25,221	60,000	82,189	113,755	715,554
Average yearly mileage per truck		5,100	4,400	4,800	3,700	9,600	22,400	5,700
Average distance each ton was carried		15.7	13.9	18.6	15.3	15.0	52.2	28.5
Percentage of total mileage travelled empty		73.0	60.2	37.2	43.6	41.8	35.7	57.6
Fuel:								
Total gallons of gasoline consumed	'000	20,978	10,105	2,688	7,353	11,410	13,846	66,380
Miles per gallon of gasoline		15.0	11.8	9.4	8.2	7.0	5.1	10.1
Total gallons of diesel oil consumed	'000	—	—	—	—	—	7,016	7,016
Miles per gallon of diesel oil		—	—	—	—	—	5.9	5.9
Total gallons of other fuel consumed	'000	—	—	—	—	427	126	553
Miles per gallon of other fuel		—	—	—	—	6.6	6.7	6.6
Weight of goods carried:								
Total tons of goods carried	'000	1,847	2,781	1,451	7,842	17,480	17,592	48,993
Average weight carried ¹	ton	0.3	0.8	1.7	3.5	5.5	12.6	4.6
Net ton miles:								
Total net ton miles performed	'000	29,024	38,520	26,996	119,985	262,766	917,855	1,395,146
Average net ton miles per truck		500	1,400	5,200	7,300	30,700	180,600	11,200
Capacity ton miles:								
Total capacity ton miles ²	'000	254,063	152,734	88,607	334,182	638,103	1,726,763	3,194,452
Average capacity ton miles per truck		4,100	5,600	16,900	20,400	74,600	339,800	25,700
Percentage of capacity utilized		11.4	25.2	30.5	35.9	41.2	53.2	43.7
Gross ton miles:								
Total gross ton miles ³	'000	530,489	282,747	116,791	365,721	661,194	2,150,098	4,107,040
Average gross ton miles per truck		8,600	10,400	22,300	22,300	77,400	423,200	33,000
Estimated annual population		61,962	27,263	5,232	16,414	8,548	5,081	124,500

¹ Net ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1960

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity ¹			Total ¹		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	—	—	—						
Prince Edward Island	—	—	—						
Nova Scotia	—	—	—						
New Brunswick	—	—	—						
Quebec	66	73	139						
Ontario	144	93	237						
Manitoba	34	30	64						
Saskatchewan	47	86	133						
British Columbia	171	219	390						
Yukon and Northwest Territories	1	55	56						
United States	14	11	25						
Totals	477	567	1,044						

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	29	1,699	22,953	13.5	788.6	536	2.3
Animals and animal products	151	22,249	295,073	13.3	1,950.1	7,384	2.5
Mine products	19	332	5,107	15.4	273.5	136	2.7
Forest products	54	1,317	18,805	14.3	352.5	714	3.8
Manufactures and miscellaneous	504	36,706	487,906	13.3	967.8	18,853	3.9
N.O.S. general freight	287	26,464	388,896	14.7	1,353.1	10,872	2.8
Totals	1,044	88,767	1,218,740	13.7	1,167.4	38,495	3.2
	Private intercity ¹						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products							
Animals and animal products							
Mine products							
Forest products							
Manufactures and miscellaneous							
N.O.S. general freight							
Totals							

¹ Reliable statistics not available.

APPENDIX

Type of operation	A. Population							Total
	0- 2½ tons 0- 5,000 lb.	2½- 5 tons 5,001- 10,000 lb.	5- 7½ tons 10,001- 15,000 lb.	7½- 10 tons 15,001- 20,000 lb.	10- 15 tons 20,001- 30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated Alberta truck population in 1960								
For hire	412	397	237	981	3,683	3,690	9,400	
Private:								
Intercity	10,883	4,071	764	1,517	996	529	18,760	
Urban	15,903	4,008	814	2,169	1,619	827	25,340	
Farm	34,764	18,787	3,417	11,747	2,250	35	71,000	
Totals	61,962	27,263	5,232	16,414	8,548	5,081	124,500	
B. Survey Response								
	Total number of trucks selected in samples		Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire	4,915		1,569		1,348		1,998	
Private:								
Intercity	1,743		748		556		439	
Urban	2,349		831		773		745	
Farm	2,917		889		1,135		893	
Totals	11,924		4,037		3,812		4,075	

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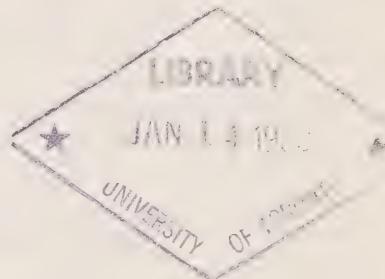
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MOTOR TRANSPORT TRAFFIC
—
PROVINCE OF ALBERTA

1961



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Public Finance and Transportation Division
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PROVINCE OF ALBERTA
JANUARY 1 - DECEMBER 31, 1961

CHART - 1 TRUCK REGISTRATIONS BY TYPE OF OPERATION

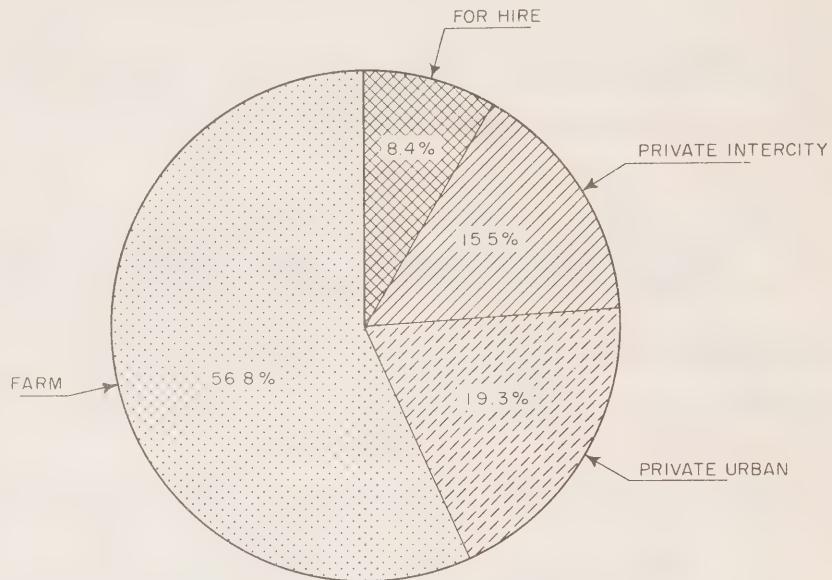
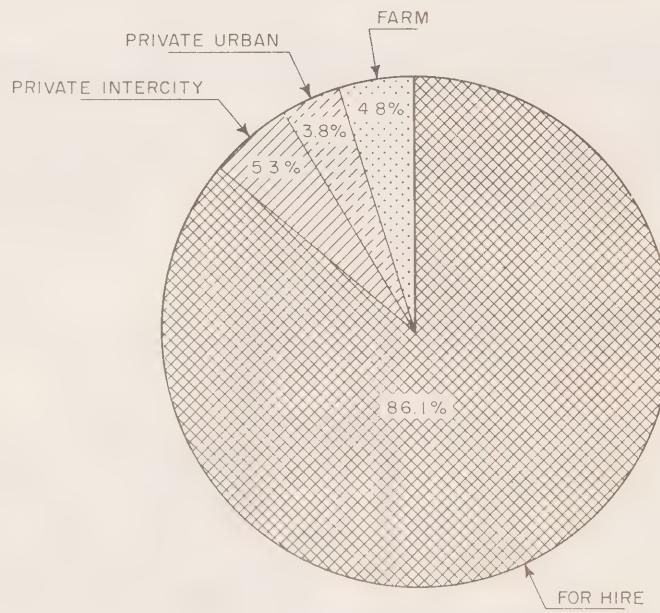


CHART - 2 NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1961 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "PSV" licence. An

"E" licence limits a truck to the transportation of the commodities specified by the Alberta Highway Traffic Board. A "PSV" licence is issued to all other public service vehicles engaged in intercity operations. Trucks operated for compensation within a five mile radius of the city, town or village of registration are issued with a "C" licence. Trucks owned by farmers and operated solely in connection with their farm are issued with an "F" licence. Other privately owned trucks are licensed with either a "CV" or a restricted "X" licence.

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "PSV" and "E" licensed vehicles
Private intercity	— "CV" licensed vehicles and "X" licensed vehicles operating beyond urban areas
Private urban	— "C" licensed vehicles and that portion of "X" licensed vehicles operating only in urban areas
Farm	— "F" licensed vehicles

It should be noted that because all "C" licensed vehicles have been included in the private urban class, the for hire data are understated and the private urban statistics overstated by the for hire operations of these "C" licensed trucks.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 to 1960.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selec-

tions are stratified by licence and weight group. Therefore it is only necessary to multiply the sample in each weight group of each licence category by the inverse of the appropriate selection ratio to arrive at a quarterly population. The four quarterly populations by gross vehicle weight and licence categories are added together and an average weight group and licence category distribution for the year is computed. This weight group and licence category distribution is applied to the constant population. Each licence category except "X" licences corresponds to one function. For the "X" licensed population, the average distribution obtained from all the previous year's completed questionnaires is used to divide these vehicles into private intercity and private urban. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For hire, farm and some private intercity and private urban vehicles can be identified immedi-

ately by their licences. However "X" licensed vehicles have to be separated into private urban and private intercity classes according to the area of operation as indicated in the returned questionnaires.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.

5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.

6. The expanded data for the four quarters are added together to arrive at an annual total.

Review of Survey Results

The estimated population of trucks performing transportation services in Alberta during the year rose 2.1 per cent to 127,100 from 124,500 in 1960. Of these 10,700 or 8.4 per cent were for hire trucks; 19,664 or 15.5 per cent were private intercity vehicles; 24,536 or 19.3 per cent were private vehicles operating wholly within urban areas; and 72,200 or 56.8 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Alberta registered trucks.

Although comprising only 8.4 per cent of Alberta's truck population for hire vehicles accounted for 86.1 per cent of the total net ton miles and 46.2 per cent of the total tons of goods carried during 1961. This results from the high average yearly mileage of these trucks, 25,600 miles as compared with 6,900 miles for all trucks, and from the heavy average load carried of 12.2 tons compared to 6.6 tons for all trucks. Since over three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 5.7 compared with 9.6 for all trucks.

It is estimated that urban operations accounted for 1.7 per cent of the total ton miles performed by Alberta registered for hire trucks and 11.2 per cent of the total ton miles performed by private intercity vehicles.

Some trucks in Alberta under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 9 per cent of the total mileage travelled by Alberta registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 55.7 per cent and private intercity 12.7 per cent of their total net ton miles outside Alberta.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately two thirds of the total net ton miles performed and over one third of the revenue earned by these vehicles. Over one third of the total tons of goods carried in this type of traffic by Alberta registered for hire trucks was transported to or from British Columbia and approximately one quarter was carried to or from Ontario.

Appendix

During the year survey questionnaires were sent to the owners or operators of 12,024 trucks. Of this number 4,209 were returned completed and 3,948

trucks were reported not used during the survey week. The remaining 3,867 were either returned incomplete and unusable or not returned at all.

SECTION I. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1-DECEMBER 31, 1961

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled.....	'000	273,491	207,806	140,268	251,642	873,207
Average yearly mileage per truck.....		25,600	10,600	5,700	3,500	6,900
Average distance each ton was carried.....		109.8	44.6	7.9	15.3	58.9
Percentage of total mileage travelled empty.....		26.8	62.5	61.7	59.6	50.1
Fuel:						
Total gallons of gasoline consumed.....	'000	26,913	16,831	12,918	20,728	77,390
Miles per gallon of gasoline.....		5.7	11.9	10.9	12.1	9.6
Total gallons of diesel oil consumed.....	'000	19,924	623	—	—	20,547
Miles per gallon of diesel oil.....		6.0	6.0	—	—	6.0
Total gallons of other fuel consumed.....	'000	79	501	—	—	580
Miles per gallon of other fuel.....		5.5	7.2	—	—	6.9
Weight of goods carried:						
Total tons of goods carried.....	'000	22,292	3,409	13,626	8,907	48,234
Average weight carried ¹	ton	12.2	2.0	2.0	1.3	6.6
Net ton miles:						
Total net ton miles performed.....	'000	2,447,489	152,201	107,012	136,397	2,843,099
Average net ton miles per truck.....		228,700	7,700	4,400	1,900	22,400
Capacity ton miles:						
Total capacity ton miles ²	'000	3,835,708	514,010	321,549	454,505	5,125,772
Average capacity ton miles per truck.....		358,500	26,100	13,100	6,300	40,300
Percentage of capacity utilized.....		63.8	29.6	33.3	30.0	55.5
Gross ton miles:						
Total gross ton miles ³	'000	5,356,213	691,513	444,524	683,267	7,175,517
Average gross ton miles per truck.....		500,600	35,200	18,100	9,500	56,500
Revenue:						
Total revenue.....	\$'000	100,636	—	—	—	—
Revenue per ton mile.....	¢	4.1	—	—	—	—
Revenue per mile (total mileage travelled).....	¢	36.8	—	—	—	—
Average revenue per truck.....	\$	9,400	—	—	—	—
Estimated annual population.....		10,700	19,664	24,536	72,200	127,100

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
Mileage:								
Total mileage travelled.....	'000	336,756	143,137	24,588	67,589	86,484	214,653	873,207
Average yearly mileage per truck.....		5,600	4,800	4,700	3,900	9,500	39,300	6,900
Average distance each ton was carried.....		18.6	13.6	18.0	17.4	16.9	124.9	58.9
Percentage of total mileage travelled empty.....		69.1	58.8	38.1	39.6	41.0	23.9	50.1
Fuel:								
Total gallons of gasoline consumed.....	'000	23,289	11,983	2,635	8,272	12,289	18,922	77,390
Miles per gallon of gasoline.....		14.5	11.9	9.3	8.2	6.7	4.8	9.6
Total gallons of diesel oil consumed.....	'000	—	—	—	—	—	—	20,547
Miles per gallon of diesel oil.....		—	—	—	—	—	—	6.0
Total gallons of other fuel consumed.....	'000	—	—	—	—	512	68	580
Miles per gallon of other fuel.....		—	—	—	—	7.1	5.6	6.9
Weight of goods carried:								
Total tons of goods carried.....	'000	1,655	3,173	1,312	7,464	15,823	18,807	48,234
Average weight carried ¹	ton	0.3	0.7	1.6	3.2	5.2	14.4	6.6
Net ton miles:								
Total net ton miles performed.....	'000	30,856	43,079	23,647	129,743	266,778	2,348,996	2,843,099
Average net ton miles per truck.....		500	1,400	4,500	7,600	29,300	430,500	22,400
Capacity ton miles:								
Total capacity ton miles ²	'000	279,398	181,830	89,388	357,798	677,615	3,539,743	5,125,772
Average capacity ton miles per truck.....		4,600	6,100	17,100	20,900	74,400	648,700	40,300
Percentage of capacity utilized.....		11.0	23.7	26.5	36.3	39.4	66.4	55.5
Gross ton miles:								
Total gross ton miles ³	'000	571,259	333,117	110,033	406,080	685,884	5,069,144	7,175,517
Average gross ton miles per truck.....		9,500	11,200	21,100	23,700	75,300	928,900	56,500
Estimated annual population.....		60,372	29,808	5,214	17,144	9,105	5,457	127,100

See footnotes at end of Table 6, page 9.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
20,000 lb. and under	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	1,222	12,203	24,304	2.0	19.9	6,078	25.0
20,001-30,000 lb.	9,366	34,339	181,923	5.3	19.4	19,704	10.8
30,001-50,000 lb.	7,108	31,825	331,083	10.4	46.6	22,989	6.9
50,001 lb. and over	4,596	121,814	1,910,179	15.7	415.6	51,865	2.7
Totals	22,292	200,181	2,447,489	12.2	109.8	100,636	4.1
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	524	49,177	17,113	0.3		32.6	
10,001-20,000 lb.	706	14,933	31,011	2.1		43.9	
20,001-30,000 lb.	1,061	7,790	35,711	4.6		33.6	
30,001 lb. and over	1,118	5,945	68,366	11.5		61.2	
Totals	3,409	77,845	152,201	2.0		44.6	

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
Live animals	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	489	7,889	56,588	7.2	115.8	3,887	6.9
Food, feed, beverages and tobacco	1,946	42,082	522,787	12.4	268.7	17,188	3.3
Crude materials, inedible	12,425	18,286	215,787	11.8	17.4	12,512	5.8
Fabricated materials, inedible	4,392	37,955	518,539	13.7	118.1	22,981	4.4
End products, inedible	1,083	29,107	254,825	8.8	235.2	16,876	6.6
General freight	1,957	64,862	878,983	13.6	449.3	27,192	3.1
Totals	22,292	200,181	2,447,489	12.2	109.8	100,636	4.1
Private intercity							
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles		
Live animals	8	152	633	4.2		80.2	
Food, feed, beverages and tobacco	333	8,832	20,714	2.6		62.3	
Crude materials, inedible	473	1,030	6,758	6.6		14.3	
Fabricated materials, inedible	1,653	11,826	57,189	4.8		34.6	
End products, inedible	790	51,850	59,458	1.1		75.2	
General freight	152	4,155	7,469	1.8		48.0	
Totals	3,409	77,845	152,201	2.0		44.6	

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1-DECEMBER 31, 1961

TABLE 5. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	174,993	202,604	140,268	769,507
Average yearly mileage per truck		16,400	10,300	5,700	6,100
Average distance each ton was carried		49.3	39.2	7.9	30.5
Percentage of total mileage travelled empty		35.7	62.7	61.7	55.4
Fuel:					
Total gallons of gasoline consumed	'000	23,021	16,342	12,918	73,009
Miles per gallon of gasoline		5.8	12.0	10.9	9.9
Total gallons of diesel oil consumed	'000	6,830	468	—	7,298
Miles per gallon of diesel oil		6.0	5.9	—	6.0
Total gallons of other fuel consumed	'000	75	475	—	550
Miles per gallon of other fuel		5.5	7.2	—	7.0
Weight of goods carried:					
Total tons of goods carried	'000	21,973	3,392	13,626	47,898
Average weight carried ¹	ton	9.6	1.8	2.0	4.3
Net ton miles:					
Total net ton miles performed	'000	1,084,097	132,924	107,012	1,460,430
Average net ton miles per truck		101,300	6,800	4,400	11,500
Capacity ton miles:					
Total capacity ton miles ²	'000	2,136,236	471,807	321,549	3,384,097
Average capacity ton miles per truck		199,600	24,000	13,100	26,600
Percentage of capacity utilized		50.7	28.2	33.3	43.2
Gross ton miles:					
Total gross ton miles ³	'000	2,567,824	640,481	444,524	4,336,096
Average gross ton miles per truck		240,000	32,600	18,100	34,100
Revenue:					
Total revenue	\$'000	67,469	—	—	—
Revenue per ton mile	¢	6.2	—	—	—
Revenue per mile (total mileage travelled)	¢	38.6	—	—	—
Average revenue per truck	\$	6,300	—	—	—
Estimated annual population		10,700	19,664	24,536	72,200
					127,100

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	334,909	143,137	24,588	66,430	84,930	115,513
Average yearly mileage per truck		5,500	4,800	4,700	3,900	9,300	21,200
Average distance each ton was carried		18.6	13.6	18.0	17.0	16.6	52.7
Percentage of total mileage travelled empty		68.9	58.8	38.1	40.0	41.0	34.9
Fuel:							
Total gallons of gasoline consumed	'000	23,160	11,983	2,635	8,125	12,084	15,022
Miles per gallon of gasoline		14.5	11.9	9.3	8.2	6.7	4.8
Total gallons of diesel oil consumed	'000	—	—	—	—	—	7,298
Miles per gallon of diesel oil		—	—	—	—	—	6.0
Total gallons of other fuel consumed	'000	—	—	—	—	511	39
Miles per gallon of other fuel		—	—	—	—	7.1	5.4
Weight of goods carried:							
Total tons of goods carried	'000	1,655	3,173	1,312	7,457	15,820	18,481
Average weight carried ¹	ton	0.3	0.7	1.6	3.2	5.2	12.9
Net ton miles:							
Total net ton miles performed	'000	30,856	43,079	23,647	126,579	262,257	974,012
Average net ton miles per truck		500	1,400	4,500	7,400	28,800	178,500
Capacity ton miles:							
Total capacity ton miles ²	'000	277,944	181,830	89,388	351,487	665,407	1,818,041
Average capacity ton miles per truck		4,600	6,100	17,100	20,500	73,100	333,200
Percentage of capacity utilized		11.1	23.7	26.5	36.0	39.4	53.6
Gross ton miles:							
Total gross ton miles ³	'000	568,178	333,117	110,033	398,147	674,029	2,252,592
Average gross ton miles per truck		9,400	11,200	21,100	23,200	74,000	412,800
Estimated annual population		60,372	29,808	5,214	17,144	9,105	5,457
							127,100

¹ Net ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1961

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity ¹			Total ¹		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	—	—	—						
Prince Edward Island	—	—	—						
Nova Scotia	—	—	—						
New Brunswick	—	—	—						
Quebec	81	85	166						
Ontario	187	114	301						
Manitoba	85	73	158						
Saskatchewan	55	137	192						
British Columbia	272	211	483						
Yukon and Northwest Territories	7	49	56						
United States	17	13	30						
Totals	704	682	1,386						

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	17	1,690	19,395	11.5	1,136.6	550	2.8
Food, feed, beverages and tobacco	257	25,105	413,719	16.5	1,609.1	7,030	1.7
Crude materials, inedible	45	4,437	78,276	17.6	1,721.7	1,542	2.0
Fabricated materials, inedible	436	13,116	208,048	15.9	477.1	6,537	3.1
End products, inedible	124	15,723	161,748	10.3	1,303.4	7,302	4.5
General freight	507	43,101	715,151	16.6	1,411.5	14,573	2.0
Totals	1,386	103,172	1,596,337	15.5	1,151.4	37,534	2.4
Private intercity ¹							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals							
Food, feed, beverages and tobacco							
Crude materials, inedible							
Fabricated materials, inedible							
End products, inedible							
General freight							
Totals							

¹Reliable statistics not available.

APPENDIX

Type of operation	A. Population							Total
	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated Alberta truck population in 1961								
For hire	217	370	289	1,371	4,315	4,138	10,700	
Private:								
Intercity	10,440	5,352	915	1,598	953	406	19,664	
Urban	14,940	4,290	767	2,226	1,461	852	24,536	
Farm	34,775	19,796	3,243	11,949	2,376	61	72,200	
Totals	60,372	29,808	5,214	17,144	9,105	5,457	127,100	
B. Survey Response								
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable		
For hire	4,708		1,516		1,356			1,836
Private:								
Intercity	1,784		816		588			380
Urban	2,444		913		761			770
Farm	3,088		964		1,243			881
Totals	12,024		4,209		3,948			3,867

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ANNUAL



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MOTOR TRANSPORT TRAFFIC
PROVINCE OF ALBERTA

1962



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Motor Transport Traffic

Each of the following series of eight annual reports provides statistics on mileage, fuel consumption, truck capacity, goods carried, ton miles, revenues and number of trucks by type of operation and gross vehicle weight group.

53-207	Motor Transport Traffic: National Estimates (approx. 30 pp.)	\$.50
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PROVINCE OF ALBERTA
JANUARY 1 - DECEMBER 31, 1962

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

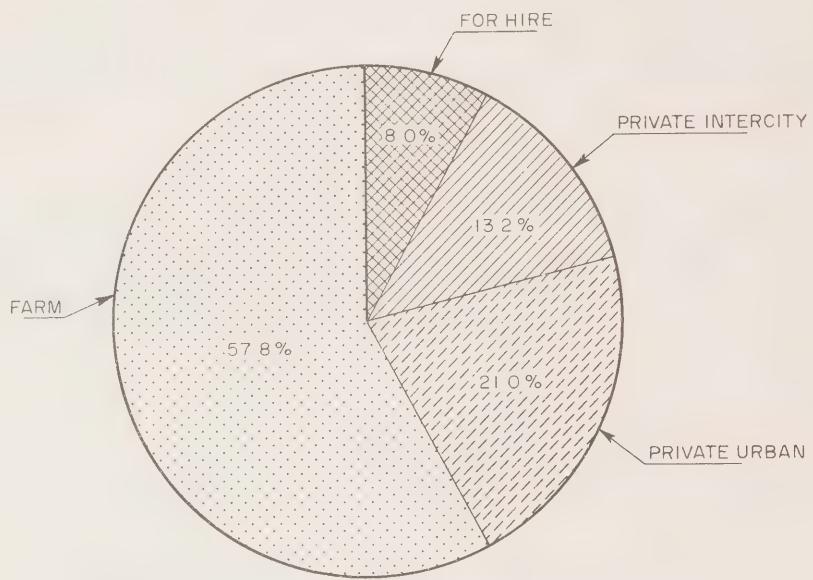
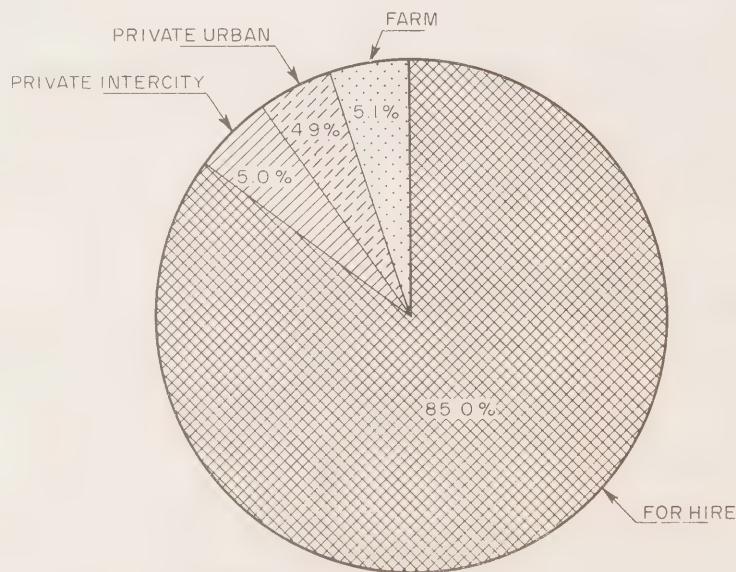


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1962 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "P" licence. An "E"

licence limits a truck to the transportation of the commodities specified by the Alberta Highway Traffic Board. A "P" licence is issued to all other public service vehicles engaged in intercity operations. Trucks operated for compensation within a five mile radius of the city, town or village of registration are issued with a "U" licence. Trucks owned by farmers and operated solely in connection with their farm are issued with an "F" licence. Other privately owned trucks are licensed with either a "C" or a restricted "X" licence.

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "P" and "E" licensed vehicles
Private intercity	— "C" licensed vehicles and "X" licensed vehicles operating beyond urban areas
Private urban	— "U" licensed vehicles and that portion of "X" licensed vehicles operating only in urban areas
Farm	— "F" licensed vehicles

It should be noted that because all "C" licensed vehicles have been included in the private urban class, the for hire data are understated and the private urban statistics overstated by the for hire operations of these "C" licensed trucks.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No.53-207, for 1957 to 1961.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selec-

tions are stratified by licence and weight group. Therefore it is only necessary to multiply the sample in each weight group of each licence category by the inverse of the appropriate selection ratio to arrive at a quarterly population. The four quarterly populations by gross vehicle weight and licence categories are added together and an average weight group and licence category distribution for the year is computed. This weight group and licence category distribution is applied to the constant population. Each licence category except "X" licences corresponds to one function. For the "X" licensed population, the average distribution obtained from all the previous year's completed questionnaires is used to divide these vehicles into private intercity and private urban. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For hire, farm and some private intercity and private urban vehicles can be identified immedi-

ately by their licences. However "X" licensed vehicles have to be separated into private urban and private intercity classes according to the area of operation as indicated in the returned questionnaires.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

Review of Survey Results

The estimated population of trucks performing transportation services in Alberta during the year rose 3.7 per cent to 131,800 from 127,100 in 1961. Of these 10,500 or 8.0 per cent were for hire trucks; 17,472 or 13.2 per cent were private intercity vehicles; 27,628 or 21.0 per cent were private vehicles operating wholly within urban areas; and 76,200 or 57.8 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Alberta registered trucks.

Although comprising only 8.0 per cent of Alberta's truck population for hire vehicles accounted for 85.0 per cent of the total net ton miles and 47.7 per cent of the total tons of goods carried during 1962. This results from the high average yearly mileage of these trucks, 26,100 miles as compared with 6,700 miles for all trucks, and from the heavy average load carried of 11.7 tons compared to 6.0 tons for all trucks. Since over three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.0 compared with 9.9 for all trucks.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

It is estimated that urban operations accounted for 2.3 per cent of the total ton miles performed by Alberta registered for hire trucks and 11.5 per cent of the total ton miles performed by private intercity vehicles.

Some trucks in Alberta under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 10 per cent of the total mileage travelled by Alberta registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 53.1 per cent and private intercity 7.9 per cent of their total net ton miles outside Alberta.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately two thirds of the total net ton miles performed and over one third of the revenue earned by these vehicles. Over one third of the total tons of goods carried in this type of traffic by Alberta registered for hire trucks was transported to or from British Columbia. There was a significant decline in traffic to and from Ontario while a slight decrease was recorded in trips to Quebec. Traffic between these provinces and Alberta was affected to some extent by labour disputes in the trucking industry which lasted in both these latter provinces for many weeks in the spring of 1962.

Appendix

During the year survey questionnaires were sent to the owners or operators of 12,411 trucks. Of this number 4,074 were returned completed and 3,839 trucks were reported not used during the

survey week. The remaining 4,498 were either returned incomplete and unusable or not returned at all.

**SECTION I. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1-DECEMBER 31, 1962**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	274,368	171,459	165,469	274,093
Average yearly mileage per truck		26,100	9,800	6,000	3,600
Average distance each ton was carried		105.4	42.1	10.8	16.2
Percentage of total mileage travelled empty		28.6	68.8	54.9	55.8
Fuel:					
Total gallons of gasoline consumed	'000	24,357	14,808	15,069	21,401
Miles per gallon of gasoline		6.0	11.0	11.0	12.8
Total gallons of diesel oil consumed	'000	20,032	699	—	—
Miles per gallon of diesel oil		6.2	6.5	—	—
Total gallons of other fuel consumed	'000	635	480	—	—
Miles per gallon of other fuel		5.4	7.2	—	—
Weight of goods carried:					
Total tons of goods carried	'000	21,692	3,210	12,041	8,527
Average weight carried ¹	ton	11.7	2.5	1.8	1.1
Net ton miles:					
Total net ton miles performed	'000	2,285,890	135,185	130,581	137,974
Average net ton miles per truck		217,700	7,700	4,700	1,800
Capacity ton miles:					
Total capacity ton miles ²	'000	3,777,345	475,834	396,968	466,678
Average capacity ton miles per truck		359,700	27,200	14,400	6,100
Percentage of capacity utilized		60.5	28.4	32.9	29.6
Gross ton miles:					
Total gross ton miles ³	'000	5,258,821	633,881	521,213	677,063
Average gross ton miles per truck		500,800	36,300	18,900	8,900
Revenue:					
Total revenue	\$'000	108,842	—	—	—
Revenue per ton mile	¢	4.8	—	—	—
Revenue per mile (total mileage travelled)	¢	39.7	—	—	—
Average revenue per truck	\$	10,400	—	—	—
Estimated annual population		10,500	17,472	27,628	76,200
					131,800

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	340,712	146,793	34,191	69,645	74,766	219,282
Average yearly mileage per truck		5,400	4,700	5,700	4,100	8,000	38,500
Average distance each ton was carried		19.3	17.7	22.4	16.6	16.8	120.3
Percentage of total mileage travelled empty		65.4	61.4	41.9	38.4	38.7	26.1
Fuel:							
Total gallons of gasoline consumed	'000	23,276	12,133	3,661	8,606	10,384	17,575
Miles per gallon of gasoline		14.6	12.1	9.3	8.1	6.8	5.0
Total gallons of diesel oil consumed	'000	—	—	—	—	—	20,731
Miles per gallon of diesel oil		—	—	—	—	—	6.2
Total gallons of other fuel consumed	'000	—	—	—	—	556	559
Miles per gallon of other fuel		—	—	—	—	7.2	5.1
Weight of goods carried:							
Total tons of goods carried	'000	2,152	2,402	1,270	7,699	13,454	18,493
Average weight carried ¹	ton	0.4	0.8	1.4	3.0	4.9	13.7
Net ton miles:							
Total net ton miles performed	'000	41,451	42,499	28,480	127,765	225,458	2,223,977
Average net ton miles per truck		700	1,400	4,800	7,500	24,200	390,500
Capacity ton miles:							
Total capacity ton miles ²	'000	280,829	180,429	121,136	373,875	572,582	3,587,974
Average capacity ton miles per truck		4,500	5,800	20,300	22,000	61,400	630,000
Percentage of capacity utilized		14.8	23.6	23.5	34.2	39.4	62.0
Gross ton miles:							
Total gross ton miles ³	'000	585,004	341,668	151,515	379,099	586,879	5,046,813
Average gross ton miles per truck		9,300	11,000	25,400	22,300	62,900	886,200
Estimated annual population		62,770	31,019	5,959	17,031	9,326	5,695
							131,800

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
20,000 lb. and under	1,875	16,116	34,681	2.2	20.7	6,466	18.6
20,001-30,000 lb.	7,820	29,949	148,824	5.0	19.0	18,539	12.5
30,001-50,000 lb.	6,517	30,318	282,076	9.3	43.3	21,758	7.7
50,001 lb. and over	5,680	119,614	1,820,309	15.2	320.5	62,079	3.4
Totals	21,692	195,997	2,285,890	11.7	105.4	108,842	4.8
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	377	25,443	8,506	0.3	22.5		
10,001-20,000 lb.	623	13,471	20,615	1.5	33.1		
20,001-30,000 lb.	967	7,876	34,223	4.3	35.4		
30,001 lb. and over	1,243	6,701	71,841	10.7	57.8		
Totals	3,210	53,491	135,185	2.5	42.1		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
'000 tons	'000	'000	tons	miles	\$'000	¢	
Live animals.....	539	7,013	57,575	8.2	106.8	4,010	7.0
Food, feed, beverages and tobacco.....	1,763	42,824	512,634	12.0	290.8	15,760	3.1
Crude materials, inedible	11,124	15,960	171,559	10.7	15.4	11,948	7.0
Fabricated materials, inedible.....	5,223	35,654	494,582	13.9	94.7	23,446	4.7
End products, inedible	893	30,892	212,407	6.9	237.8	20,175	9.5
General freight.....	2,150	63,654	837,133	13.2	389.3	33,503	4.0
Totals	21,692	195,997	2,285,890	11.7	105.4	108,842	4.8
Private intercity							
Weight of goods carried	Total miles travelled with load			Total net ton miles	Average weight carried	Average distance per ton	
	'000 tons	'000	'000	tons	miles		
Live animals.....	9	396	1,053	2.7	119.6		
Food, feed, beverages and tobacco.....	362	12,284	27,780	2.3	76.7		
Crude materials, inedible	353	932	6,673	7.2	18.9		
Fabricated materials, inedible.....	1,646	12,256	56,981	4.6	34.6		
End products, inedible	553	19,675	32,552	1.7	58.9		
General freight.....	287	7,948	10,146	1.3	35.3		
Totals	3,210	53,491	135,185	2.5	42.1		

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1962

TABLE 5. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	175,517	165,201	165,469	780,280
Average yearly mileage per truck		16,700	9,500	6,000	5,900
Average distance each ton was carried		50.2	39.1	10.8	32.5
Percentage of total mileage travelled empty		35.4	69.5	54.9	53.9
Fuel:					
Total gallons of gasoline consumed	'000	20,367	14,315	15,069	71,152
Miles per gallon of gasoline		6.1	11.0	11.0	10.1
Total gallons of diesel oil consumed	'000	7,672	606	—	8,278
Miles per gallon of diesel oil		6.3	6.4	—	6.3
Total gallons of other fuel consumed	'000	549	446	—	995
Miles per gallon of other fuel		5.7	7.2	—	6.4
Weight of goods carried:					
Total tons of goods carried	'000	21,391	3,180	12,041	45,139
Average weight carried ¹	ton	9.5	2.5	1.8	4.1
Net ton miles:					
Total net ton miles performed	'000	1,073,044	124,456	130,581	1,466,055
Average net ton miles per truck		102,200	7,100	4,700	11,100
Capacity ton miles:					
Total capacity ton miles ²	'000	2,144,706	447,823	396,968	3,456,175
Average capacity ton miles per truck		204,300	25,600	14,400	26,200
Percentage of capacity utilized		50.0	27.8	32.9	42.4
Gross ton miles:					
Total gross ton miles ³	'000	2,610,187	596,955	521,213	4,405,418
Average gross ton miles per truck		248,600	34,200	18,900	33,400
Revenue:					
Total revenue	\$'000	73,941	—	—	—
Revenue per ton mile	¢	6.9	—	—	—
Revenue per mile (total mileage travelled)	¢	42.1	—	—	—
Average revenue per truck	\$	7,000	—	—	—
Estimated annual population		10,500	17,472	27,628	76,200
					131,800

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	337,834	146,793	33,258	65,913	72,790	123,692
Average yearly mileage per truck		5,400	4,700	5,600	3,900	7,800	21,700
Average distance each ton was carried		19.2	17.7	22.2	16.1	16.2	55.7
Percentage of total mileage travelled empty		65.4	61.4	41.3	37.6	39.1	34.6
Fuel:							
Total gallons of gasoline consumed	'000	23,078	12,133	3,559	8,176	10,142	14,064
Miles per gallon of gasoline		14.6	12.1	9.3	8.1	6.8	10.1
Total gallons of diesel oil consumed	'000	—	—	—	—	—	8,278
Miles per gallon of diesel oil		—	—	—	—	—	6.3
Total gallons of other fuel consumed	'000	—	—	—	—	522	473
Miles per gallon of other fuel		—	—	—	—	7.2	5.4
Weight of goods carried:							
Total tons of goods carried	'000	2,146	2,402	1,270	7,699	13,442	18,180
Average weight carried ¹	ton	0.4	0.8	1.4	3.0	4.9	12.5
Net ton miles:							
Total net ton miles performed	'000	41,235	42,499	28,257	124,165	217,810	1,012,089
Average net ton miles per truck		700	1,400	4,700	7,300	23,400	177,700
Capacity ton miles:							
Total capacity ton miles ²	'000	278,448	180,429	118,227	354,445	557,722	1,966,904
Average capacity ton miles per truck		4,400	5,800	19,800	20,800	59,800	345,400
Percentage of capacity utilized		14.8	23.6	23.9	35.0	39.1	51.5
Gross ton miles:							
Total gross ton miles ³	'000	580,094	341,668	148,093	360,256	569,740	2,405,567
Average gross ton miles per truck		9,200	11,000	24,900	21,200	61,100	422,400
Estimated annual population		62,770	31,019	5,959	17,031	9,326	5,695
							131,800

¹ Net ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1962

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity ¹			Total ¹		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	-	-	-						
Prince Edward Island	-	-	-						
Nova Scotia	-	-	-						
New Brunswick	-	-	-						
Quebec	70	82	152						
Ontario	151	73	224						
Manitoba	83	86	169						
Saskatchewan	48	181	229						
British Columbia	250	257	507						
Yukon and Northwest Territories	6	40	46						
United States	21	8	29						
Totals	629	727	1,356						

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	22	903	11,335	12.6	514.0	631	5.6
Food, feed, beverages and tobacco	262	27,182	413,281	15.2	1,578.8	7,953	1.9
Crude materials, inedible	38	2,635	41,277	15.7	1,074.4	1,180	2.9
Fabricated materials, inedible	377	10,996	171,377	15.6	454.3	5,154	3.0
End products, inedible	121	13,552	122,553	9.0	1,011.5	6,445	5.3
General freight	536	39,513	641,820	16.2	1,198.4	16,360	2.5
Totals	1,356	94,781	1,401,643	14.8	1,033.5	37,723	2.7
Private intercity ¹							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals							
Food, feed, beverages and tobacco							
Crude materials, inedible							
Fabricated materials, inedible							
End products, inedible							
General freight							
Totals							

¹ Reliable statistics not available.

APPENDIX

Type of operation	A. Population							Total
	0- 2½ tons 0-5,000 lb.	2½- 5 tons 5,001-10,000 lb.	5- 7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated Alberta truck population in 1962								
For hire	221	447	374	1,114	4,083	4,261	10,500	
Private:								
Intercity	8,643	4,847	980	1,496	1,035	471	17,472	
Urban	17,460	5,011	856	2,127	1,281	893	27,628	
Farm	36,446	20,714	3,749	12,294	2,927	70	76,200	
Totals	62,770	31,019	5,959	17,031	9,326	5,695	131,800	
B. Survey Response								
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable		
For hire	4,652	1,417		1,249			1,986	
Private:								
Intercity	2,091	915		646			530	
Urban	2,497	833		754			910	
Farm	3,171	909		1,190			1,072	
Totals	12,411	4,074		3,839			4,498	

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**MOTOR TRANSPORT TRAFFIC
PROVINCE OF ALBERTA**

1963



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Motor Transport Traffic

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PROVINCE OF ALBERTA
JANUARY 1-DECEMBER 31, 1963

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

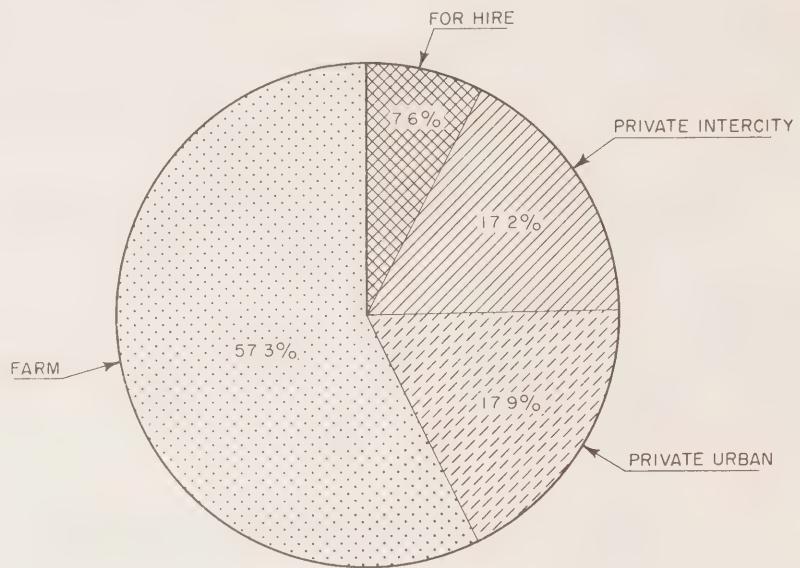
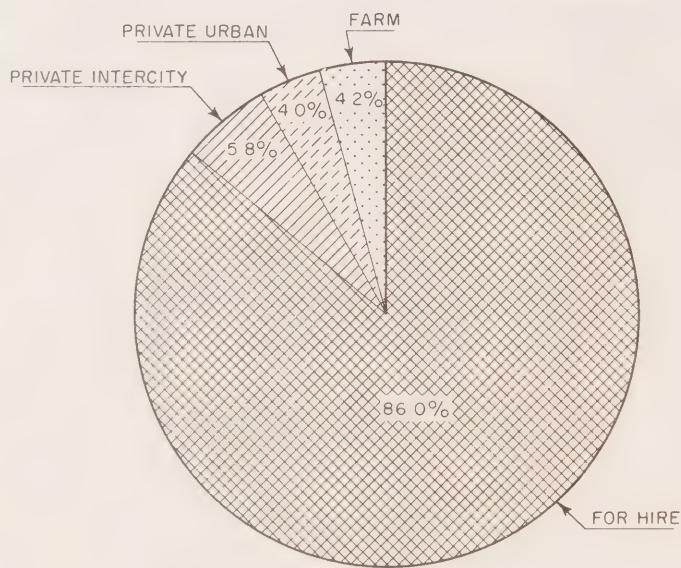


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1963 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "P" licence. An "E"

licence limits a truck to the transportation of the commodities specified by the Alberta Highway Traffic Board. A "P" licence is issued to all other public service vehicles engaged in intercity operations. Trucks operated for compensation within a five mile radius of the city, town or village of registration are issued with a "U" licence. Trucks owned by farmers and operated solely in connection with their farm are issued with an "F" licence. Other privately owned trucks are licensed with either a "C" or a restricted "X" licence.

In this report vehicles have been classified into the four functional categories as follows:

For hire	- "P" and "E" licensed vehicles
Private intercity	- "C" licensed vehicles and "X" licensed vehicles operating beyond urban areas
Private urban	- "U" licensed vehicles and that portion of "X" licensed vehicles operating only in urban areas
Farm	- "F" licensed vehicles

It should be noted that because all "C" licensed vehicles have been included in the private urban class, the for hire data are understated and the private urban statistics overstated by the for hire operations of these "C" licensed trucks.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1962.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by licence and weight group.

Therefore it is only necessary to multiply the sample in each weight group of each licence category by the inverse of the appropriate selection ratio to arrive at a quarterly population. The four quarterly populations by gross vehicle weight and licence categories are added together and an average weight group and licence category distribution for the year is computed. This weight group and licence category distribution is applied to the constant population. Each licence category except "X" licences corresponds to one function. For the "X" licensed population, the average distribution obtained from all the previous year's completed questionnaires is used to divide these vehicles into private intercity and private urban. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For hire, farm and some private intercity and private urban vehicles can be identified immediately by their licences. However "X" licensed

vehicles have to be separated into private urban and private intercity classes according to the area of operation as indicated in the returned questionnaires.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Alberta during the year rose 3.7 per cent to 135,200 from 131,800 in 1962. Of these 10,200 or 7.6 per cent were for hire trucks; 23,248 or 17.2 per cent were private intercity vehicles; 24,252 or 17.9 per cent were private vehicles operating wholly within urban areas; and 77,500 or 57.3 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Alberta registered trucks.

Although comprising only 7.6 per cent of Alberta's truck population for hire vehicles accounted for 86.0 per cent of the total net ton miles and 45.1 per cent of the total tons of goods carried during 1963. This results from the high average yearly mileage of these trucks, 26,300 miles as compared with 7,000 miles for all trucks, and from the heavy average load carried of 12.9 tons compared to 6.5 tons for all trucks. Since over four fifths of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance

of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.2 compared with 10.4 for all trucks.

It is estimated that urban operations accounted for 1.7 per cent of the total ton miles performed by Alberta registered for hire trucks and 11.5 per cent of the total ton miles performed by private intercity vehicles.

Some trucks in Alberta under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 10 per cent of the total mileage travelled by Alberta registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 43.4 per cent and private intercity 8.6 per cent of their total net ton miles inside Alberta.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately two thirds of the total net ton miles performed and over one third of the revenue earned by these vehicles. Over 40 per cent of the total tons of goods carried in this type of traffic by Alberta registered for hire trucks was transported to or from British Columbia. There was a slight incline in traffic to and from Ontario while a slight increase was recorded in trips to Quebec.

Appendix

During the year survey questionnaires were sent to the owners or operators of 13,910 trucks. Of this number 4,127 were returned completed and 4,067

trucks were reported not used during the survey week. The remaining 5,716 were either returned incomplete and unusable or not returned at all.

SECTION I. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1—DECEMBER 31, 1963

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	267,942	258,434	140,379	282,120	948,875
Average yearly mileage per truck		26,300	11,100	5,800	3,600	7,000
Average distance each ton was carried		116.8	40.8	9.1	13.6	61.3
Percentage of total mileage travelled empty		27.2	69.6	53.6	61.2	52.8
Fuel:						
Total gallons of gasoline consumed	'000	20,778	21,020	12,663	21,572	76,033
Miles per gallon of gasoline		6.2	11.6	11.0	13.1	10.4
Total gallons of diesel oil consumed	'000	22,605	890	202	—	23,697
Miles per gallon of diesel oil		6.0	5.9	5.5	—	6.0
Total gallons of other fuel consumed	'000	676	999	—	—	1,675
Miles per gallon of other fuel		6.5	8.6	—	—	7.7
Weight of goods carried:						
Total tons of goods carried	'000	21,482	4,151	13,013	8,943	47,589
Average weight carried ¹	ton	12.9	2.2	1.8	1.1	6.5
Net ton miles:						
Total net ton miles performed	'000	2,509,175	169,257	117,964	121,473	2,917,869
Average net ton miles per truck		246,000	7,300	4,900	1,600	21,600
Capacity ton miles:						
Total capacity ton miles ²	'000	4,001,431	586,764	366,176	451,229	5,405,600
Average capacity ton miles per truck		392,300	25,200	15,100	5,800	40,000
Percentage of capacity utilized		62.7	28.8	32.2	26.9	54.0
Gross ton miles:						
Total gross ton miles ³	'000	5,552,785	854,848	479,251	702,758	7,589,642
Average gross ton miles per truck		544,400	36,800	19,800	9,100	56,100
Revenue:						
Total revenue	\$'000	107,648	—	—	—	—
Revenue per ton mile	¢	4.3	—	—	—	—
Revenue per mile (total mileage travelled)	¢	40.2	—	—	—	—
Average revenue per truck	\$	10,600	—	—	—	—
Estimated annual population		10,200	23,248	24,252	77,500	135,200

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
Mileage:								
Total mileage travelled	'000	392,883	164,566	24,517	60,208	81,926	224,775	948,875
Average yearly mileage per truck		6,200	4,900	4,200	3,600	8,600	37,500	7,000
Average distance each ton was carried		21.7	16.7	17.7	13.3	16.5	119.2	61.3
Percentage of total mileage travelled empty		69.5	62.2	45.4	42.2	41.0	24.5	52.8
Fuel:								
Total gallons of gasoline consumed	'000	26,034	13,452	2,537	7,746	10,802	15,412	76,033
Miles per gallon of gasoline		14.9	12.1	9.4	7.7	7.2	5.3	10.4
Total gallons of diesel oil consumed	'000	—	—	—	34	15	23,648	23,697
Miles per gallon of diesel oil		—	—	—	8.6	9.0	6.0	6.0
Total gallons of other fuel consumed	'000	581	113	41	—	625	315	1,675
Miles per gallon of other fuel		10.2	10.0	7.9	—	6.2	5.3	7.7
Weight of goods carried:								
Total tons of goods carried	'000	1,644	2,105	1,150	7,806	13,982	20,902	47,589
Average weight carried ¹	ton	0.3	0.6	1.5	3.0	4.8	14.7	6.5
Net ton miles:								
Total net ton miles performed	'000	35,748	35,082	20,354	103,998	231,211	2,401,476	2,917,869
Average net ton miles per truck		600	1,100	3,500	6,300	24,300	415,200	21,600
Capacity ton miles:								
Total capacity ton miles ²	'000	319,939	184,864	82,123	318,735	625,321	3,874,618	5,405,600
Average capacity ton miles per truck		5,000	5,500	14,200	19,200	65,600	645,800	40,000
Percentage of capacity utilized		11.2	19.0	24.8	32.6	37.0	64.3	54.0
Gross ton miles:								
Total gross ton miles ³	'000	669,191	367,670	108,327	349,390	629,638	5,465,426	7,589,642
Average gross ton miles per truck		10,500	11,000	18,700	21,000	66,100	910,900	56,100
Estimated annual population		63,833	33,413	5,798	16,624	9,532	6,000	135,200

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	387	7,313	17,061	2.3	44.0	4,246	24.9
20,001-30,000 lb.	8,097	31,389	151,241	4.8	18.7	17,714	11.7
30,001-50,000 lb.	7,022	23,808	228,695	9.6	32.6	19,286	8.4
50,001 lb. and over	5,976	132,650	2,112,178	15.9	353.4	66,402	3.1
Totals	21,482	195,160	2,509,175	12.9	116.8	107,648	4.3
Private intercity							
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Revenue per ton mile	
	'000 tons	'000	'000	tons	miles	¢	
10,000 lb. and under	436	49,207	16,995	0.3	39.0		
10,001-20,000 lb.	1,277	12,593	26,266	2.1	20.6		
20,001-30,000 lb.	1,037	8,652	36,828	4.3	35.5		
30,001 lb. and over	1,401	8,148	89,168	10.9	63.7		
Totals	4,151	78,600	169,257	2.2	40.8		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	638	7,673	56,440	7.4	88.5	4,533	8.0
Food, feed, beverages and tobacco	1,775	43,069	573,865	13.3	323.2	17,258	3.0
Crude materials, inedible	10,316	16,165	192,588	11.9	18.7	11,681	6.1
Fabricated materials, inedible	5,683	39,131	549,409	14.0	96.7	24,534	4.5
End products, inedible	1,070	28,336	282,578	10.0	264.1	19,513	6.9
General freight	2,000	60,786	854,295	14.1	427.1	30,129	3.5
Totals	21,482	195,160	2,509,175	12.9	116.8	107,648	4.3
Private intercity							
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Revenue per ton mile	
	'000 tons	'000	'000	tons	miles	¢	
Live animals	17	1,997	1,128	0.6	66.1		
Food, feed, beverages and tobacco	451	12,239	26,124	2.1	57.9		
Crude materials, inedible	774	1,940	8,345	4.3	10.8		
Fabricated materials, inedible	2,058	13,175	75,663	5.7	36.8		
End products, inedible	701	45,844	52,209	1.1	74.5		
General freight	150	3,405	5,788	1.7	38.5		
Totals	4,151	78,600	169,257	2.2	40.8		

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1-DECEMBER 31, 1963

TABLE 5. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled.....	'000	171,236	250,565	140,379	282,120	844,300
Average yearly mileage per truck.....		16,800	10,800	5,800	3,600	6,200
Average distance each ton was carried.....		51.5	35.5	9.1	13.6	31.2
Percentage of total mileage travelled empty.....		36.6	70.5	53.6	61.2	57.7
Fuel:						
Total gallons of gasoline consumed.....	'000	18,309	20,570	12,663	21,572	73,114
Miles per gallon of gasoline.....		6.3	11.7	11.0	13.1	10.6
Total gallons of diesel oil consumed.....	'000	8,525	608	202	—	9,335
Miles per gallon of diesel oil.....		6.1	5.7	5.5	—	6.0
Total gallons of other fuel consumed.....	'000	627	847	—	—	1,474
Miles per gallon of other fuel.....		6.6	8.2	—	—	7.5
Weight of goods carried:						
Total tons of goods carried.....	'000	21,153	4,103	13,013	8,943	47,212
Average weight carried ¹	ton	10.0	2.0	1.8	1.1	4.1
Net ton miles:						
Total net ton miles performed.....	'000	1,089,538	145,553	117,964	121,473	1,474,528
Average net ton miles per truck.....		106,800	6,300	4,900	1,600	10,900
Capacity ton miles:						
Total capacity ton miles ²	'000	2,223,416	540,794	366,176	451,229	3,581,615
Average capacity ton miles per truck.....		218,000	23,300	15,100	5,800	26,500
Percentage of capacity utilized.....		49.0	26.9	32.2	26.9	41.2
Gross ton miles:						
Total gross ton miles ³	'000	2,657,653	786,755	479,251	702,758	4,626,417
Average gross ton miles per truck.....		260,600	33,800	19,800	9,100	34,200
Revenue:						
Total revenue.....	\$'000	69,997	—	—	—	—
Revenue per ton mile.....	¢	6.4	—	—	—	—
Revenue per mile (total mileage travelled).....	¢	40.9	—	—	—	—
Average revenue per truck.....	\$	6,900	—	—	—	—
Estimated annual population.....		10,200	23,248	24,252	77,500	135,200

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total	
Mileage:								
Total mileage travelled.....	'000	390,542	162,417	24,072	59,783	79,983	127,503	844,300
Average yearly mileage per truck.....		6,100	4,900	4,200	3,600	8,400	21,300	6,200
Average distance each ton was carried.....		21.6	16.4	16.9	13.3	16.3	51.3	31.2
Percentage of total mileage travelled empty.....		69.7	62.2	45.2	42.1	41.1	35.4	57.7
Fuel:								
Total gallons of gasoline consumed.....	'000	25,977	13,270	2,542	7,689	10,522	13,114	73,114
Miles per gallon of gasoline.....		14.9	12.2	9.3	7.7	7.2	5.4	10.6
Total gallons of diesel oil consumed.....	'000	—	—	—	34	15	9,286	9,335
Miles per gallon of diesel oil.....		—	—	—	8.6	9.0	6.0	6.0
Total gallons of other fuel consumed.....	'000	430	113	41	—	625	265	1,474
Miles per gallon of other fuel.....		10.1	10.0	7.9	—	6.2	5.2	7.5
Weight of goods carried:								
Total tons of goods carried.....	'000	1,640	2,105	1,150	7,799	13,932	20,586	47,212
Average weight carried ¹	ton	0.3	0.6	1.5	3.0	4.8	12.8	4.1
Net ton miles:								
Total net ton miles performed.....	'000	35,369	34,623	19,428	103,543	226,471	1,055,094	1,474,528
Average net ton miles per truck.....		600	1,000	3,400	6,200	23,800	175,800	10,900
Capacity ton miles:								
Total capacity ton miles ²	'000	318,092	182,282	80,163	316,426	611,026	2,073,626	3,581,615
Average capacity ton miles per truck.....		5,000	5,500	13,800	19,000	64,100	345,600	26,500
Percentage of capacity utilized.....		11.1	19.0	24.2	32.7	37.1	50.9	41.2
Gross ton miles:								
Total gross ton miles ³	'000	664,673	362,672	105,719	347,180	615,765	2,530,408	4,626,417
Average gross ton miles per truck.....		10,400	10,900	18,200	20,900	64,600	421,700	34,200
Estimated annual population.....		63,833	33,413	5,798	16,624	9,532	6,000	135,200

¹ Net ton miles divided by miles travelled with load.

² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.

³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1-DECEMBER 31, 1963

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-
Quebec	68	101	169	-	-	-	68	101	169
Ontario	163	110	273	3	1	4	166	111	277
Manitoba	86	60	146	2	2	4	88	62	150
Saskatchewan	67	199	266	5	16	21	72	215	287
British Columbia	347	326	673	15	24	39	362	350	712
Yukon and Northwest Territories	6	46	52	-	2	2	6	48	54
United States	17	17	34	-	-	-	17	17	34
Totals	754	859	1,613	25	45	70	779	904	1,683

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	10	731	6,716	9.2	680.0	297	4.4
Food, feed, beverages and tobacco	318	26,796	465,723	17.4	1,463.7	9,039	1.9
Crude materials, inedible	95	3,519	64,790	18.4	677.1	1,423	2.2
Fabricated materials, inedible	400	13,434	228,861	17.0	572.5	6,350	2.8
End products, inedible	171	16,102	191,891	11.9	1,123.9	8,656	4.5
General freight	619	42,950	715,757	16.7	1,156.7	17,262	2.4
Totals	1,613	103,532	1,673,738	16.2	1,037.6	43,027	2.6
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	-	--	--	-	-		
Food, feed, beverages and tobacco	5	187	680	3.6	142.3		
Crude materials, inedible	3	178	1,140	6.4	433.4		
Fabricated materials, inedible	31	1,658	15,941	9.6	515.5		
End products, inedible	30	3,115	12,608	4.0	420.0		
General freight	1	139	813	5.9	693.4		
Totals	70	5,277	31,182	5.9	448.5		

APPENDIX

Type of operation	A. Population							Total
	0 - 2½ tons 0-5,000 lb.	2½ - 5 tons 5,001-10,000 lb.	5 - 7½ tons 10,001-15,000 lb.	7½ - 10 tons 15,001-20,000 lb.	10 - 15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over		
Estimated Alberta truck population in 1963								
For hire	222	377	255	1,058	3,981	4,307	10,200	
Private:								
Intercity	12,377	6,673	915	1,522	1,214	547	23,248	
Urban	13,942	4,789	955	2,082	1,414	1,070	24,252	
Farm	37,292	21,574	3,673	11,962	2,923	76	77,500	
Totals	63,833	33,413	5,798	16,624	9,532	6,000	135,200	
B. Survey Response								
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable		
For hire	5,052	1,403		1,280			2,369	
Private:								
Intercity	2,227	917		690			620	
Urban	2,847	922		849			1,076	
Farm	3,784	885		1,248			1,651	
Totals	13,910	4,127		4,067			5,716	

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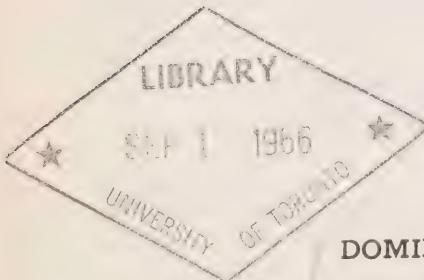


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MOTOR TRANSPORT TRAFFIC
PROVINCE OF ALBERTA

1964

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Public Finance and Transportation Division

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PROVINCE OF ALBERTA
JANUARY 1-DECEMBER 31, 1964

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

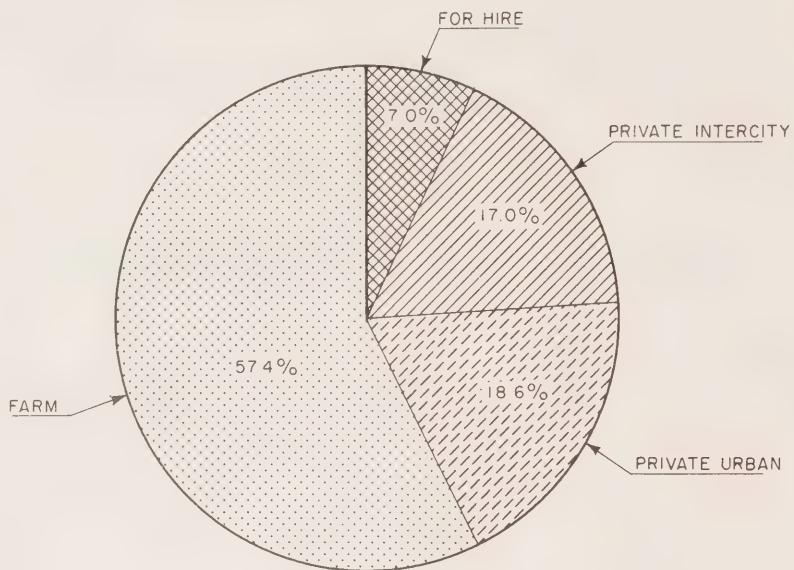
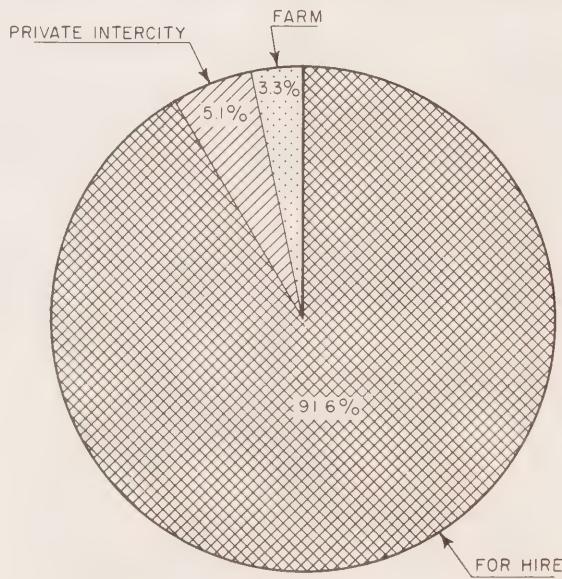


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1964 annual report of motor transport traffic in the Province of Alberta is based upon a sample of approximately 6 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Alberta trucks operated for compensation without being restricted to urban areas are required to obtain either an "E" or a "P" licence. An "E" licence limits a truck to the transportation of the commodities specified by the Alberta Highway Traffic Board. A "P" licence is issued to all other public service vehicles engaged in intercity opera-

tions. Trucks operated for compensation within a five mile radius of the city, town or village of registration are issued with a "U" licence. Trucks owned by farmers and operated solely in connection with their farm are issued with an "F" licence. Other privately owned trucks are licensed with either a "C" or a restricted "X" licence.

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "P" and "E" licensed vehicles
Private intercity	— "C" licensed vehicles and "X" licensed vehicles operating beyond urban areas
Private urban	— "U" licensed vehicles and that portion of "X" licensed vehicles operating only in urban areas
Farm	— "F" licensed vehicles

It should be noted that because all "C" licensed vehicles have been included in the private urban class, the for hire data are understated and the private urban statistics overstated by the for hire operations of these "C" licensed trucks.

Beginning in 1964 the only data recorded for vehicles performing **urban** or **local** operations, regardless of category, are **miles travelled** and **gallons of fuel used** and the **estimated population**. For this reason the 1964 figures shown under various traffic headings are not entirely comparable to the statistics published for 1963.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1963.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A total truck population figure which remains constant for all four quarterly surveys is determined. This constant population is the peak figure of the previous year's quarterly sample population estimates calculated by multiplying the sample size in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. It is only necessary to multiply the sample in each weight group of each licence category by the inverse of the appropriate selection ratio to arrive at a quarterly population. The four quarterly populations by gross vehicle weight and licence

categories are added together and an average weight group and licence category distribution for the year is computed. This weight group and licence category distribution is applied to the constant population. Each licence category except "X" licences corresponds to one function. For the "X" licensed population, the average distribution obtained from all the previous year's completed questionnaires is used to divide these vehicles into private intercity and private urban. Prior to 1959 the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For hire, farm and some private intercity and private urban vehicles can be identified immediately by their licences. However "X" licensed vehicles have to be separated into private urban

and private intercity classes according to the area of operation as indicated in the returned questionnaires.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Alberta during the year rose 6.2 per cent, to 143,600 from 135,200 in 1963. Of these 10,100, or 7.0 per cent were for hire trucks; 24,450, or 17.0 per cent were private intercity vehicles; 26,650, or 18.6 per cent were private vehicles operating wholly within urban areas; and 82,400, or 57.4 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most instances an insufficient number of vehicles were chosen in these categories to produce reliable statistics. However, it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Alberta registered trucks.

Although comprising only seven per cent of Alberta's truck population, for hire vehicles accounted for 91.6 per cent of the total net ton miles and 57.1 per cent of the total tons of goods carried during 1964. This results from the high average yearly mileage of these trucks, 29,500 miles as compared with 6,500 miles for all trucks, and from the heavy average load carried of 13.8 tons compared to 9.3 tons for all trucks. Since over four fifths of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 5.4 compared with 8.7 for all trucks.

Some trucks in Alberta under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 8 per cent of the total mileage travelled by Alberta registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Alberta registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 42 per cent and private intercity 83 per cent of their total net ton miles inside Alberta.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately two thirds of the total net ton miles performed and almost one half of the revenue earned by these vehicles. Over 45 per cent of the total tons of goods carried in this type of traffic by Alberta registered for hire trucks was transported to or from British Columbia. There was a significant incline in traffic to and from Ontario while a slight increase was recorded in trips to Quebec.

Appendix

The appendix contains a summary of the estimated truck population in 1964 by gross vehicle weight group.

SECTION I. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1964

TABLE 1. Total Operations (Intercity, Rural and Urban) of All Trucks

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	297,803	238,189	147,583	245,814
Average yearly mileage per truck		29,500	9,700	5,500	3,000
Revenue per mile (total mileage travelled)	¢	36.3	—	—	—
Fuel:					
Total gallons of gasoline consumed	'000	24,992	21,603	16,016	23,558
Miles per gallon of gasoline		5.4	10.7	8.8	10.4
Total gallons of diesel oil consumed	'000	27,606	1,063	912	—
Miles per gallon of diesel oil		5.9	5.8	4.5	—
Total gallons of other fuel consumed	'000	101	319	48	77
Miles per gallon of other fuel		5.3	5.2	39.2	13.5
Estimated annual population		10,100	24,450	26,650	82,400
					143,600

TABLE 1 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks

	For hire	Private		Total
		Intercity	Farm	
Mileage:				
Total mileage travelled	'000	297,803	238,189	245,814
Percentage of total mileage travelled empty		29.8	80.0	66.9
Weight of goods carried:				
Total tons of goods carried	'000	12,553	1,944	7,470
Average weight carried ¹	ton	13.8	3.4	1.3
Average distance each ton was carried		230.2	82.5	13.9
Net ton miles:				
Total net ton miles performed	'000	2,890,199	160,384	103,505
Average net ton miles per truck		286,200	6,600	1,300
Capacity ton miles:				
Total capacity ton miles ²	'000	4,507,672	488,474	426,516
Average capacity ton miles per truck		446,300	20,000	5,200
Percentage of capacity utilized		64.1	32.8	24.3
Gross ton miles:				
Total gross ton miles ³	'000	6,182,309	662,584	622,323
Average gross ton miles per truck		612,100	27,100	7,600
Revenue:				
Total revenue	\$'000	108,059	—	—
Revenue per ton mile	¢	3.7	—	—
Average revenue per truck	\$	10,700	—	—
Estimated annual population		10,100	24,450	82,400
				116,950

See footnotes at end of Table 6 A, page 11.

Note: Table 1 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 1 and Table 1 A see page 5, paragraph 7 of text.

TABLE 2. Total Operations (Intercity, Rural and Urban) of All Trucks by Gross Vehicle Weight Group

	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	314,842	185,164	35,640	53,868	81,141	258,734	929,389
Average yearly mileage per truck	4,700	5,100	5,400	3,300	7,700	40,600	6,500
Fuel:							
Total gallons of gasoline consumed '000	25,976	17,049	3,883	7,394	12,981	18,886	86,169
Miles per gallon of gasoline	11.9	10.8	9.2	7.3	6.1	4.7	8.7
Total gallons of diesel oil consumed '000	594	—	—	—	1	28,986	29,581
Miles per gallon of diesel oil	5.0	—	—	—	6.0	5.9	5.9
Total gallons of other fuel consumed '000	—	54	—	23	354	114	545
Miles per gallon of other fuel	—	18.0	—	2.8	5.7	2.5	9.4
Estimated annual population	67,384	36,189	6,546	16,526	10,586	6,369	143,600

TABLE 2 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks by Gross Vehicle Weight Group

	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	237,113	160,234	27,510	39,571	73,062	244,316	781,806
Percentage of total mileage travelled empty	79.0	76.8	70.0	45.5	45.8	25.5	56.7
Weight of goods carried:							
Total tons of goods carried '000	1,488	1,334	678	2,479	4,939	11,049	21,967
Average weight carried ¹ ton	0.4	0.6	1.6	2.7	4.6	15.7	9.3
Average distance each ton was carried	12.0	17.3	19.7	23.9	37.1	258.6	143.6
Net ton miles:							
Total net ton miles performed '000	17,901	23,054	13,354	59,311	183,220	2,857,248	3,154,088
Average net ton miles per truck	300	700	2,400	4,100	19,800	448,600	27,000
Capacity ton miles:							
Total capacity ton miles ² '000	183,293	157,588	72,905	187,911	488,913	4,332,052	5,422,662
Average capacity ton miles per truck	3,600	5,100	13,100	12,900	52,900	866,200	46,400
Percentage of capacity utilized	9.8	14.6	18.3	31.6	37.5	66.0	58.2
Gross ton miles:							
Total gross ton miles ³ '000	366,507	285,260	87,514	203,786	487,048	6,037,101	7,467,216
Average gross ton miles per truck	7,100	9,200	15,700	14,000	52,700	1,207,200	63,900
Estimated annual population	51,518	31,101	5,567	14,519	9,244	5,001	116,950

See footnotes at end of Table 6 A, page 11.

Note: Table 2 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 2 and Table 2 A see page 5, paragraph 7 of text.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	243	7,471	12,371	1.7	50.9	2,642	21.4
20,001-30,000 lb.	2,915	26,595	118,851	4.5	40.8	15,110	12.7
30,001-50,000 lb.	3,234	20,029	186,059	9.3	57.5	13,743	7.4
50,001 lb. and over	6,161	155,046	2,572,918	16.6	417.6	76,564	3.0
Totals	12,553	209,141	2,890,199	13.8	230.2	108,059	3.7
Private intercity							
Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	173	22,182	9,226	0.4	53.4		
10,001-20,000 lb.	316	10,368	14,937	1.4	47.3		
20,001-30,000 lb.	848	8,653	40,618	4.7	47.9		
30,001 lb. and over	607	6,517	95,603	14.7	157.5		
Totals	1,944	47,720	160,384	3.4	82.5		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	554	5,351	49,602	9.3	89.5	3,209	6.5
Food, feed, beverages and tobacco	1,496	46,133	560,526	12.2	374.6	17,798	3.2
Crude materials, inedible	4,165	11,604	168,868	14.6	40.5	8,175	4.8
Fabricated materials, inedible	3,077	34,546	572,239	16.6	186.0	21,574	3.8
End products, inedible	1,146	31,391	332,700	10.6	290.4	20,805	6.3
General freight	2,115	80,116	1,206,264	15.1	570.4	36,498	3.0
Totals	12,553	209,141	2,890,199	13.8	230.2	108,059	3.7
Private intercity							
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	—	—	—	—	—		
Food, feed, beverages and tobacco	265	8,572	26,532	3.1	100.1		
Crude materials, inedible	283	1,007	5,152	5.1	18.2		
Fabricated materials, inedible	981	11,338	79,457	7.0	81.0		
End products, inedible	375	24,661	45,337	1.8	120.9		
General freight	40	2,142	3,906	1.8	99.2		
Totals	1,944	47,720	160,384	3.4	82.5		

SECTION II. TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1964

TABLE 5. Total Operations (Intercity, Rural and Urban) of All Trucks

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	190,384	223,137	147,583	245,814
Average yearly mileage per truck		18,900	9,100	5,500	3,000
Revenue per mile (total mileage travelled)	\$	35.6	—	—	—
Fuel:					
Total gallons of gasoline consumed	'000	22,997	20,365	16,016	23,558
Miles per gallon of gasoline		5.3	10.7	8.8	10.4
Total gallons of diesel oil consumed	'000	11,374	833	912	—
Miles per gallon of diesel oil		5.9	5.4	4.5	—
Total gallons of other fuel consumed	'000	101	311	48	77
Miles per gallon of other fuel		5.3	5.2	39.2	13.5
Estimated annual population		10,100	24,450	26,650	82,400
					143,600

TABLE 5 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks

	For hire	Private		Total
		Intercity	Farm	
Mileage:				
Total mileage travelled	'000	190,384	223,137	245,814
Percentage of total mileage travelled empty		40.9	79.8	66.9
Weight of goods carried:				
Total tons of goods carried	'000	12,335	1,923	7,470
Average weight carried ¹	ton	10.8	2.9	1.3
Average distance each ton was carried		98.6	69.1	13.9
Net ton miles:				
Total net ton miles performed	'000	1,216,644	132,813	103,505
Average net ton miles per truck		120,500	5,400	1,300
Capacity ton miles:				
Total capacity ton miles ²	'000	2,412,856	436,479	426,516
Average capacity ton miles per truck		238,900	17,900	5,200
Percentage of capacity utilized		50.4	30.4	24.3
Gross ton miles:				
Total gross ton miles ³	'000	2,877,225	586,488	622,323
Average gross ton miles per truck		284,900	24,000	7,600
Revenue:				
Total revenue.....	\$'000	67,703	—	—
Revenue per ton mile	\$	5.6	—	—
Average revenue per truck	\$	6,700	—	—
Estimated annual population		10,100	24,450	82,400
				116,950

¹ See footnotes at end of Table 6 A, page 11.

² Note: Table 5 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 5 and Table 5 A see page 5, paragraph 7 of text.

TABLE 6. Total Operations (Intercity, Rural and Urban) of All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	307,254	181,228	35,640	52,055	79,203	151,538	806,918
Average yearly mileage per truck	4,600	5,000	5,400	3,200	7,500	23,800	5,600
Fuel:							
Total gallons of gasoline consumed '000	25,365	16,786	3,883	7,054	12,721	17,127	82,936
Miles per gallon of gasoline	11.9	10.7	9.2	7.4	6.1	4.6	8.8
Total gallons of diesel oil consumed '000	594	—	—	—	1	12,524	13,119
Miles per gallon of diesel oil	5.0	—	—	—	6.0	5.8	5.7
Total gallons of other fuel consumed '000	—	54	—	23	346	114	537
Miles per gallon of other fuel	—	18.0	—	2.8	5.6	2.5	9.4
Estimated annual population	67,384	36,189	6,546	16,526	10,586	6,369	143,600

TABLE 6 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks
by Gross Vehicle Weight Group

	0-2½ ton 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	229,525	156,297	27,510	37,758	71,124	137,121	659,335
Percentage of total mileage travelled empty	78.3	76.2	70.0	46.3	46.0	37.9	63.7
Weight of goods carried:							
Total tons of goods carried '000	1,488	1,334	678	2,469	4,938	10,821	21,728
Average weight carried ¹ ton	0.4	0.6	1.6	2.8	4.7	13.7	6.1
Average distance each ton was carried	12.0	17.3	19.7	23.3	36.2	107.4	66.9
Net ton miles:							
Total net ton miles performed '000	17,901	23,054	13,354	57,485	178,728	1,162,440	1,452,962
Average net ton miles per truck	300	700	2,400	4,000	19,300	232,400	12,400
Capacity ton miles:							
Total capacity ton miles ² '000	178,317	152,820	72,905	179,317	474,715	2,217,777	3,275,851
Average capacity ton miles per truck	3,500	4,900	13,100	12,400	51,400	443,500	28,000
Percentage of capacity utilized	10.0	15.1	18.3	32.1	37.6	52.4	44.4
Gross ton miles:							
Total gross ton miles ³ '000	352,905	277,375	87,514	194,954	473,211	2,700,077	4,086,036
Average gross ton miles per truck	6,900	8,900	15,700	13,400	51,200	539,900	34,900
Estimated annual population	51,518	31,101	5,567	14,519	9,244	5,001	116,950

¹ Net ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.**Note:** Table 6 A. excludes the operations of vehicles in the urban class and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 6 and Table 6 A see page 5, paragraph 7 of text.

SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ALBERTA REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1964

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total	Into Alberta	Out of Alberta	Total
'000 tons									
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—
Quebec	84	105	189	—	—	—	84	105	189
Ontario	190	168	358	—	—	—	190	168	358
Manitoba	35	34	69	17	14	31	52	48	100
Saskatchewan	91	168	259	—	16	16	91	184	275
British Columbia	405	501	906	2	3	5	407	504	911
Yukon and Northwest Territories	13	123	136	—	—	—	13	123	136
United States	19	36	55	—	—	—	19	36	55
Totals	837	1,135	1,972	19	33	52	856	1,168	2,024

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	14	671	14,609	21.8	1,078.6	221	1.5
Food, feed, beverages and tobacco	311	27,591	459,988	16.7	1,476.5	9,217	2.0
Crude materials, inedible	65	3,085	56,269	18.2	864.5	834	1.5
Fabricated materials, inedible	532	12,919	247,873	19.2	465.9	6,677	2.7
End products, inedible	274	17,999	230,671	12.8	842.8	10,031	4.3
General freight	776	56,247	1,010,068	18.0	1,301.7	23,959	2.4
Totals	1,972	118,512	2,019,478	17.0	1,024.1	50,939	2.5
Private intercity							
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	—	—	—	—	—	—	—
Food, feed, beverages and tobacco	—	—	—	—	—	—	—
Crude materials, inedible	—	—	—	—	—	—	—
Fabricated materials, inedible	46	1,510	32,251	21.4	693.4		
End products, inedible	6	408	2,920	7.2	489.3		
General freight	—	—	—	—	—	—	—
Totals	52	1,918	35,171	18.3	670.2		

APPENDIX
Estimated Alberta Truck Population

Type of operation	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
For hire	164	431	314	846	3,955	4,390	10,100
Private:							
Intercity	12,583	7,385	1,143	1,511	1,303	525	24,450
Urban	15,866	5,088	979	2,007	1,342	1,368	26,650
Farm	38,771	23,285	4,110	12,162	3,986	86	82,400
Totals	67,384	36,189	6,546	16,526	10,586	6,369	143,600

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